TOSHIBA

FILE NO. 030-200204

SERVICE MANUAL

COLOUR TELEVISION

C01P Chassis

42PW23P

PUBLISHED IN JAPAN Feb., 2002 (So)

TABLE OF CONTENTS

CHAPTER 1 **GENERAL ADJUSTMENTS**

SAFETY INSTRUCTIONS 3
CRT ASSEMBLY REPLACEMENT AND MOUNTING 4
PICTURE TUBE COMPONENTS ADJUSTMENT 6
SERVICE POSITION 9
SERVICE MODE 10
DESIGN MODE 13
ELECTRICAL ADJUSTMENT 14
CONVERGENCE ADJUSTMENT 15
SCREEN AND MIRROR ALIGNMENTS 24
CIRCUIT CHECKS 25

CHAPTER 2 **SPECIFIC INFORMATIONS**

SETTING & ADJUSTING DATA 26
LOCATION OF CONTROLS 27
MECHANICAL DISASSEMBLY 29
CHASSIS AND CABINET REPLACEMENT PARTS LIST 30
PC BOARDS LAYOUT TOP VIEW 48
PC BOARDS BOTTOM VIEW 49
TERMINAL VIEW OF TRANSISTORS 59
CIRCUIT BLOCK DIAGRAM 62
SPECIFICATIONS .... END
APPENDIX:
    CIRCUIT DIAGRAM

CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE “X-RAY RADIATION PRECAUTION”, “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C).
   (See SETTING & ADJUSTING DATA on page 26)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

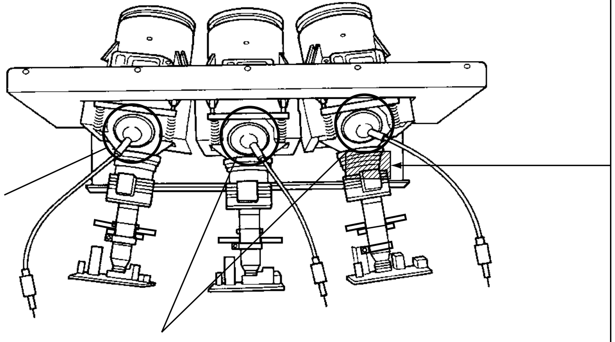
PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarely be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

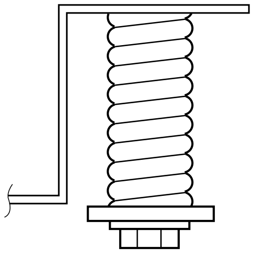
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

CRT ASSEMBLY REPLACEMENT AND MOUNTING

CAUTION : DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT.

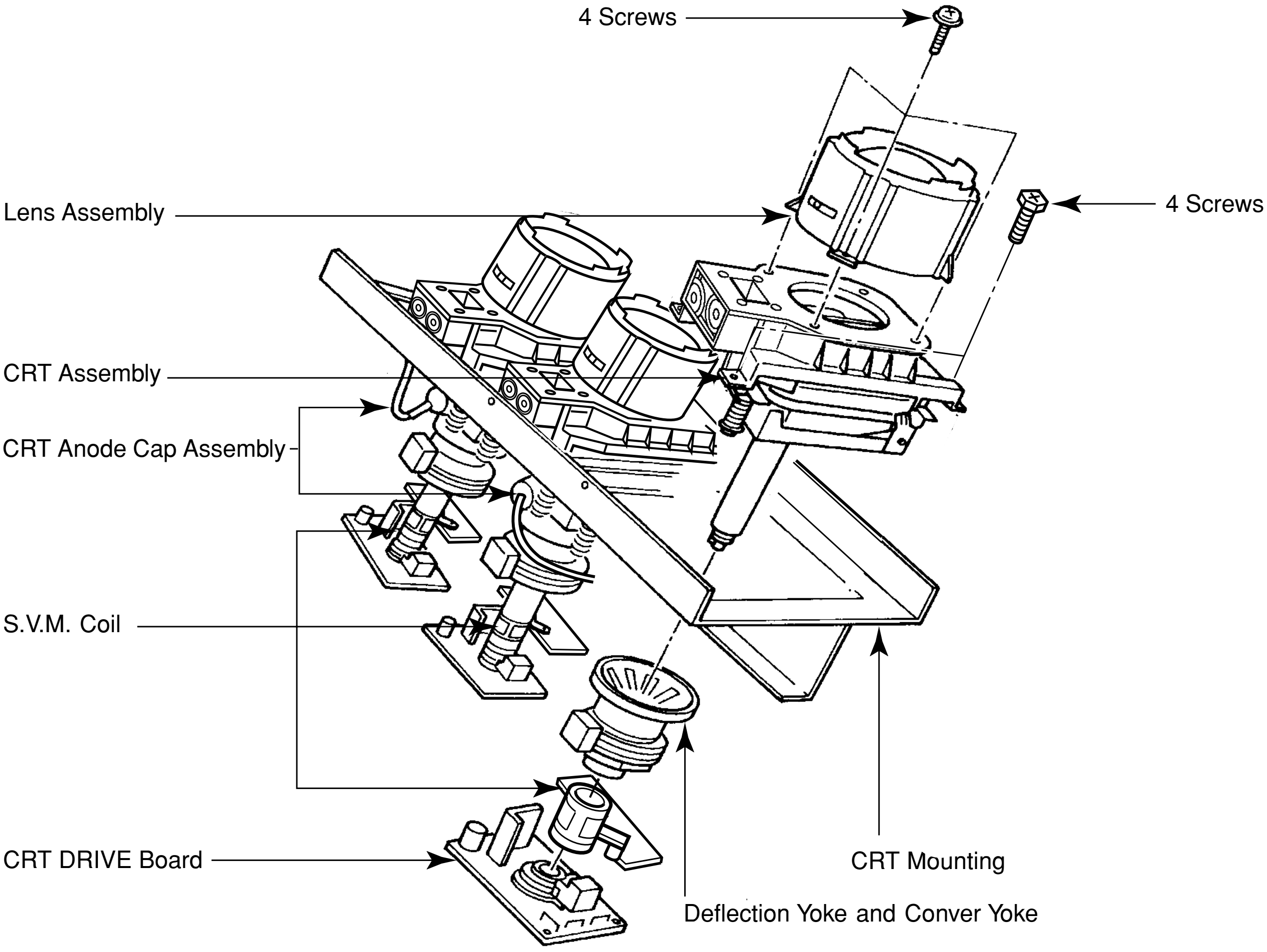


Attention Serviceman



The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, are “NOT” Adjustment Screws

DO NOT LOOSEN-FLUID LEAKAGE WILL OCCUR.


4 Screws
Lens Assembly
4 Screws
CRT Assembly
CRT Anode Cap Assembly
S.V.M. Coil
CRT DRIVE Board
CRT Mounting
Deflection Yoke and Conver Yoke

Lens and Neck Components View

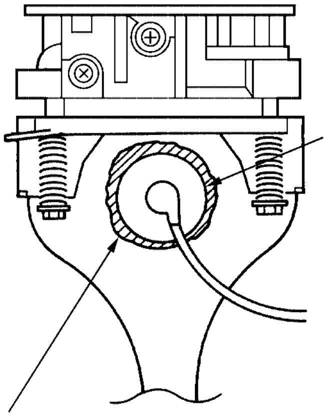
TO REMOVE CRT (Same procedure for R, G, B)

1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT.
2. Remove Lens Assembly.
3. Detach CRT Anode Cap from CRT.
4. Remove CRT Assembly from CRT Mounting.

CRT REPLACEMENT (Same procedure for R, G, B)
Reverse the removal procedures except the followings.

1. Anode Cable should be replaced with new one. See "SERVICING PRECAUTIONS" shown below.
2. Install silicon (T461B) to the CRT, replace the Anode cable and put enough silicon again on around the Anode Cap as illustrated.

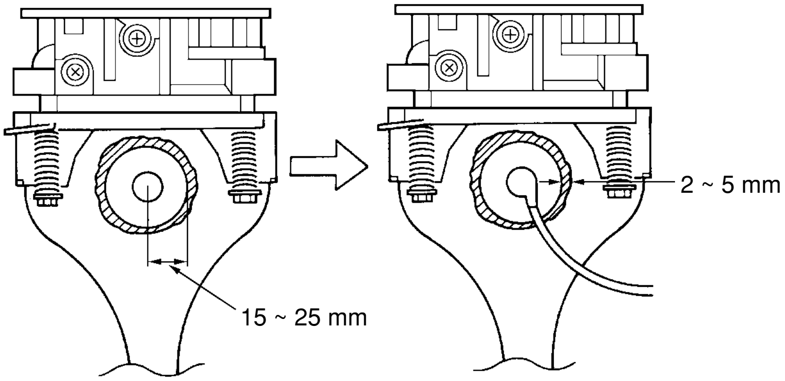
CAUTION: Align the Anode cable as illustrated on page 4.



ADJUSTING PROCEDURE IN REPLACING CRT

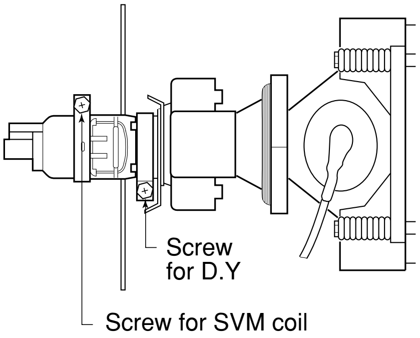
1. R.G.B. CUTOFF (SCREEN VR) ADJUSTMENT (page 6.)
2. R.G.B. FOCUS ADJUSTMENT (page 6.)
3. PICTURE TILT ADJUSTMENT (page 7.)
4. USER CONVERGENCE CENTER CHECK (Refer to owner's manual.)
5. CENTERING ADJUSTMENT (page 7.)
6. CONVERGENCE ADJUSTMENT (page 15.)
7. WHITE BALANCE ADJUSTMENT (page 14.)

Adjustments are complete.



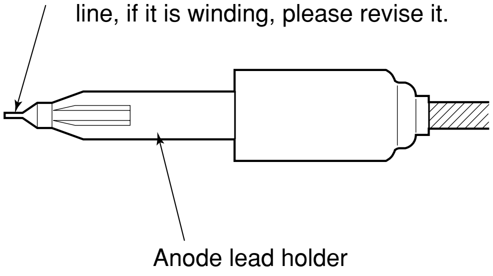
SERVICING PRECAUTIONS

- Do not use a magnetized screw driver for screws of Deflection Yoke and Velocity Modulation Coil to avoid magnetization of electron gun. Magnetization of electron gun will degrade basic function and result in unbalance of right and left shift of user static convergence, and result in no variable quantity.



- When replacing the anode cap assembly (CRT) or anode lead assembly (F.B.T.), remove the anode lead holder from old one and attach the holder again to new anode lead.

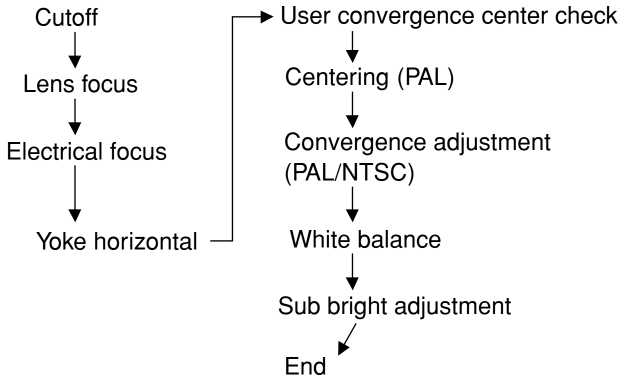
- Check the point of anode lead in a straight line, if it is winding, please revise it.



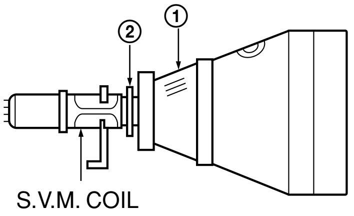
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

PICTURE TUBE COMPONENTS ADJUSTMENT

ADJUSTING PROCEDURE IN REPLACING CRT



DESCRIPTION OF NECK COMPONENTS



① Deflection yoke and convergence yoke.
The position on the neck is required most front (CRT funnel side) and the screw is fastened after rotating yoke adjusting picture tilt.

② Centering magnet
After adjusting picture tilt, picture position is finally fixed by this magnet.
In order to get maximum margin of user convergence control for center of screen, this magnet have to be used for center convergence adjustment.

PREPARATION
Operate the receiver for at least 5 minutes.

R, G, B CUTOFF (SCREEN VR) ADJUSTMENT

1. Adjust before replace the screen assembly.
2. Set user control to reset position.
   (CONTRAST → Max
   BRIGHTNESS, COLOR, TINT → Center.)
3. Call up the adjustment mode display, then select the item RCUT.
4. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H".
5. Press the -/-- button on Remote. (Y-MUTE : ON)
6. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them.
   (Lookin to the lens in order to check the raster.)
7. Press the -/-- button on Remote. (Return to Normal Picture)

RGB FOCUS ADJUSTMENT

1. Call-up the adjustment mode (see page 10)
2. Press -⊙ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
3. Expose only RED by covering the GREEN and BLUE lenses with caps.
4. Loosen the RED lens fixing screws (refer to Fig. a), and adjust the RED lens focus to obtain the sharpest point while observing the middle and peripheral sections of the screen.

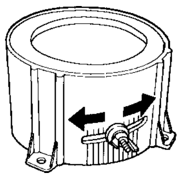


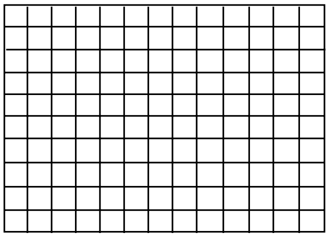
Fig. a

5. Use the focus VR of "R" of the focus pack in order to adjust the electric focus in the middle and peripheral sections of the screen to its sharpest level.
6. Check the RED focus of the whole screen and if necessary repeat steps 4 and 5.
7. Fix the RED lens by tightening its fixing screws.
8. Expose only GREEN by covering the RED and BLUE lenses with caps.
9. Display the internally-generated cross-hatch signal.
10. Adjust the GREEN lens focus on the left border of the screen to its sharpest level, then check the focus on the right border, and if it is at its sharpest level, fix it in that position by tightening the lens screws.
    (1) If the horizontal line toward the right border is red-flared, turn the lens screw slightly right in order to balance it with the left border. (After adjustment, the left border tends to be slightly green-flared, and the right border tends to be slightly red-flared.)
    (2) If the horizontal line toward the right border is green-flared, turn the lens screw slightly left in order to balance it with the left border. (After adjustment, the left border tends to be slightly red-flared, and the right border tends to be slightly green-flared.)

Note: The aim of the above-described adjustment procedure for the Green lens focus is to obtain the best lens focus after 2 - 3 hours of warming up taking into account the focus drift; it applies if the warming up time before the adjustment is less than 30 minutes. (The horizontal line in the screen middle section tends to be slightly red-flared.)

In case of warming up of more than 2 hours under a condition that the large anode current is running through the projection tube so that for example the all-white pattern appears, adjust to obtain the sharpest focus while observing the whole screen like in the RED case.

11. Press ⊸ button on the remote controller in order to display the internally-generated black cross-hatch. (See TEST SIGNAL SELECTION on page 11.)



12. Use the focus VR of “G” of the focus pack in order to adjust the electric focus in the middle section of the screen to its sharpest level.

Note: Normally the most clearly visible point of the scanning line is the sharpest point of the Green focus, however as the characteristics vary depending on the projection tube, the sharpest focus points of the vertical and horizontal lines may not match each other, thus when you turn the focus VR, if the picture tends to be tremendously unstable (rolls horizontally or vertically), adjust the balance of the vertical and horizontal lines to its best position.

13. Check the GREEN focus of the whole screen and if necessary repeat steps 10 and 11.
14. Fix the GREEN lens by tightening up its fixing screws.
15. Expose only BLUE by covering the RED and GREEN lenses with caps.
16. Press ⊸ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
17. Loosen the BLUE lens fixing screws (refer to Fig. a), and adjust the BLUE lens focus while observing the middle and peripheral screen sections.
18. Press ⊸ button on the remote controller in order to display the internally-generated black cross-hatch (See TEST SIGNAL SELECTION on page 11.)
19. Use the focus VR of “B” of the focus pack in order to adjust the focus in the middle section of the screen to its sharpest level.
    (The point of the Blue focus becomes sharpest when the brightness level of BLUE is lowest, the cross-hatch is clearly visible.)

Note: Keep in mind that only the BLUE electric focus is adjusted with the black cross-hatch.

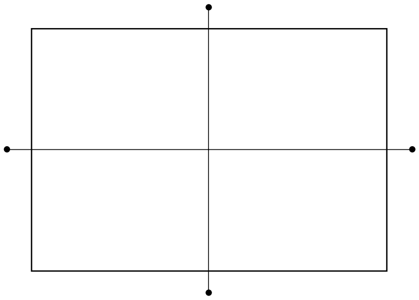
20. Check the BLUE focus of the whole screen and if necessary repeat steps 17 and 19.
21. Fix the BLUE lens by tightening its fixing screws.

TILT ADJUSTMENT

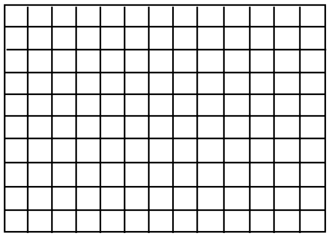
Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

CENTERING ADJUSTMENT

1. Stretch a thread between two center slots of screen edge (top and bottom, left and right).



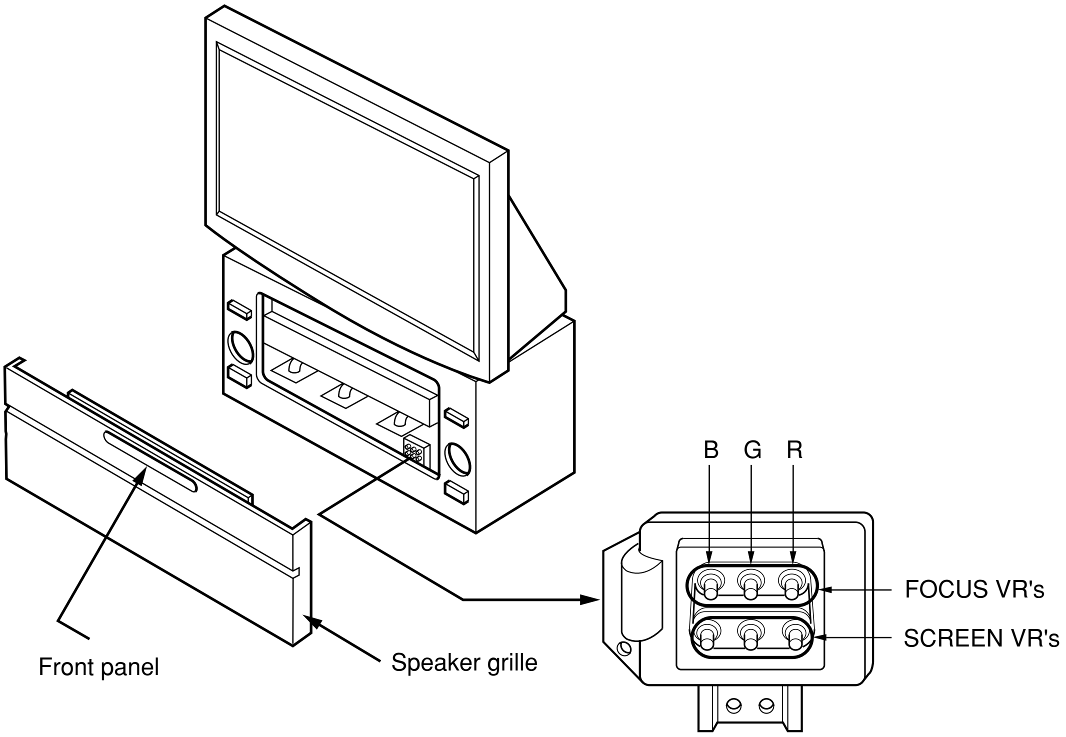
2. Select the adjustment mode. (See page 10.)
3. Press TV/VIDEO button on the Remote Control to display the black cross-hatch.



4. Adjust G centering magnet so that the cross-hatch pattern center comes to screen center.
5. Perform HEIGHT adjustment . (See page 14.)
6. Perform VERT. LINEARITY adjustment. (See page 14.)
7. Perform WIDTH adjustment. (See page 14.)
8. Check whole quality of green line.
9. Adjust R, B centering magnet so that the cross-hatch pattern center comes to screen center.

LOCATION OF SCREEN AND FOCUS VR'S

To remove the Speaker grille and Front panel.


B
G
R
FOCUS VR's
SCREEN VR's
Front panel
Speaker grille

REPLACEMENT OF HIGH VOLTAGE CABLE

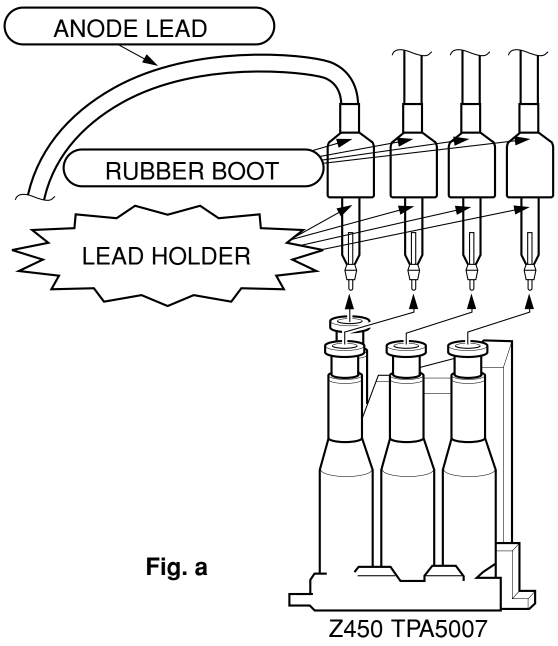

ANODE LEAD
RUBBER BOOT
LEAD HOLDER
Z450 TPA5007

Fig. a

1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in figure below, and put it on new lead. Do not throw away Lead Holder.

NOTE : THE LEAD HOLDER IS ATTACHED TO TPA5007 (Z450), BUT IS NOT ATTACHED TO ANODE LEAD AND ANODE CAP. RUBBER BOOT IS ATTACHED TO ANODE LEAD AND ANODE CAP.

2. Detaching Lead Holder

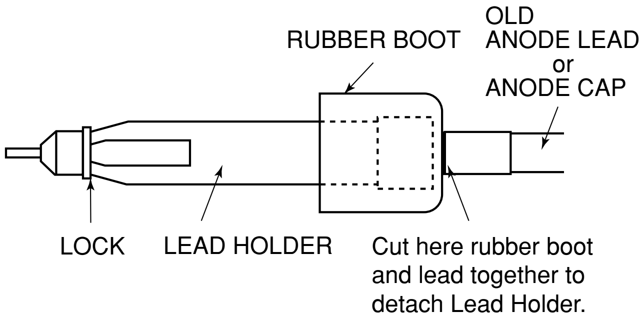

RUBBER BOOT
OLD
ANODE LEAD
or
ANODE CAP
LOCK
LEAD HOLDER
Cut here rubber boot
and lead together to
detach Lead Holder.

Fig. b

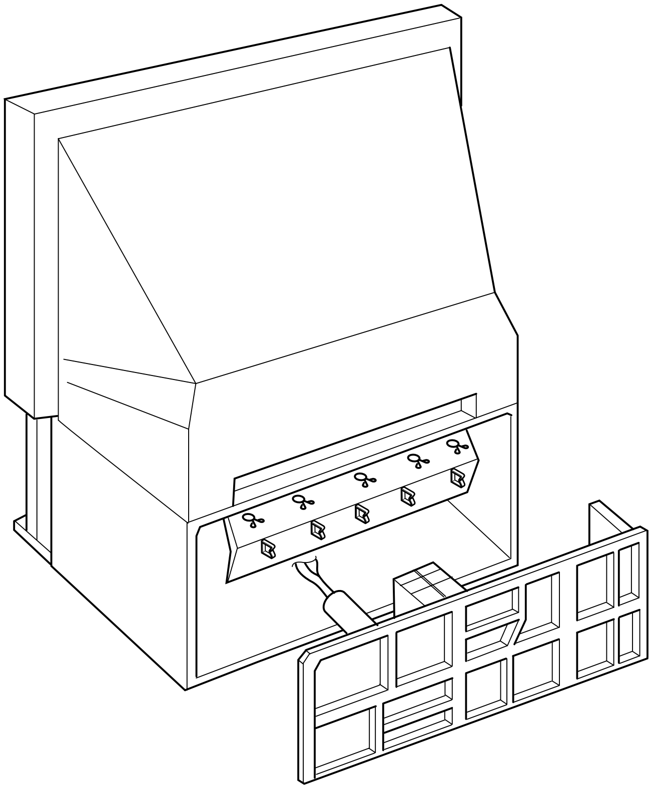
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SERVICE POSITION

In order to assure the performance, processed wires shall be replaced after the repair work.
Work procedures are as follows:

1. Remove the back board.
2. Remove lead wires.
3. Draw out the chassis.
4. Rest the chassis against the back cabinet, chassis as shown bellow.

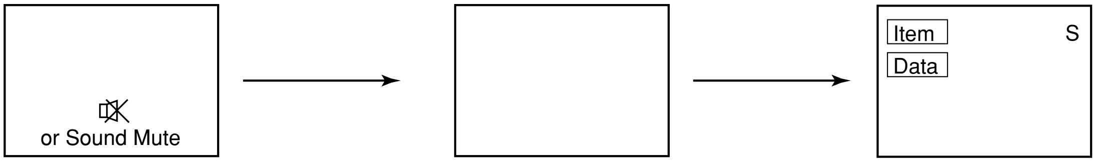
After repair work finished, replace it in the opposite procedure.



SERVICE MODE

1. ENTERING TO SERVICE MODE

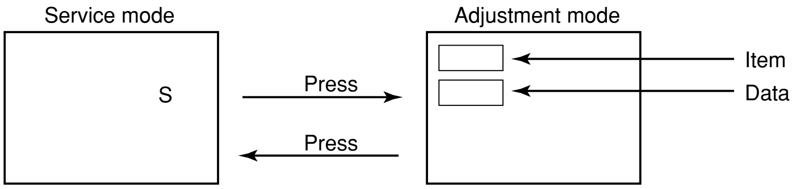
1) Press 🔇 button once on Remote Control.
2) Press 🔇 button again to keep pressing.
3) While pressing the 🔇 button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	-/-- button (on Remote)	
Test signal selection :	⊸ button (on Remote)	
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)	
Change of the data value :	Volume ◢ +/– (on TV or Remote)	
Adjustment menu mode ON/OFF :	MENU button (on TV)	
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)	
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)	
“RCUT” selection :	1 button	
“GCUT” selection :	2 button	
“BCUT” selection :	3 button	
“SCNT” selection :	4 button	
“COLP” selection :	5 button– – – – –	Color thickness correction
“TNTC” selection :	6 button	note: Displayed differently as shown below, depending on the setting of the receiving color system. COLP (PAL) COLC (NTSC) COLS (SECAM)
Convergence adj :	YELLOW button	
Self diagnostic display ON/OFF :	9 button	

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 26)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

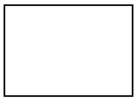
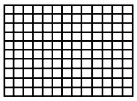
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊸ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

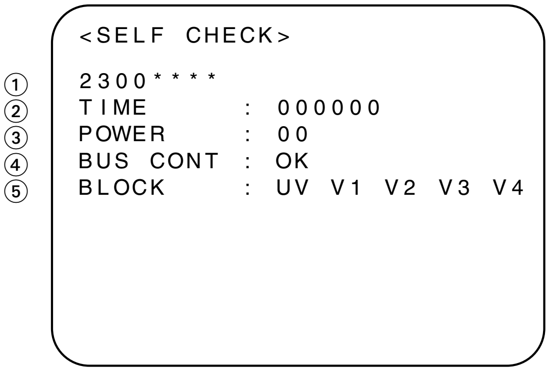
Signal off → PAL signals (5 patterns)
↑ ← NTSC signals (5 patterns) ←

Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ░ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



```
    <SELF CHECK>

①   2300****
②   TIME       :  000000
③   POWER      :  00
④   BUS CONT   :  OK
⑤   BLOCK      :  UV  V1  V2  V3  V4
```

① Part number of microcomputer (QA01)
② Total hour of turn the TV on. (Unit: H)
③ Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
④ BUS CONT ----“OK” is normal.
When indication shows “Q ○○○ NG”, the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (⊸1)
V2 : VIDEO 2 input mode (⊸2)
V3 : VIDEO 3 input mode
V4 : VIDEO 4 input mode

Indicated color of mode now selected : Green and Red
Indicated color of other modes : Black

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.

NOTE: (1) In case that "on timer" indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that "on timer" indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ▨ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

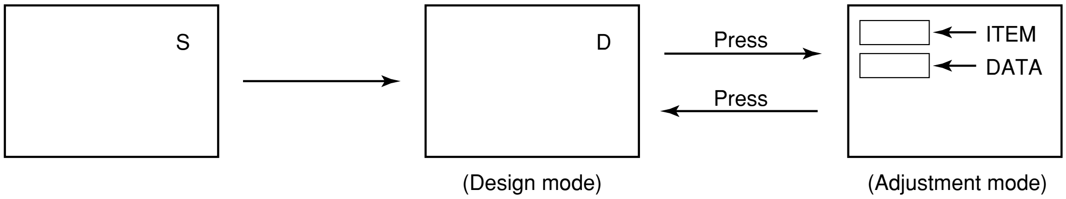
DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode.

2) While pressing CALL button on Remote and press MENU button on TV.

3) Press MENU button on TV.



When QA02 is initialized, items “OPT0”, “OPT1” and "OPT2" of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0”, “OPT1” and "OPT2".

2. SELECTING THE ADJUSTING ITEMS

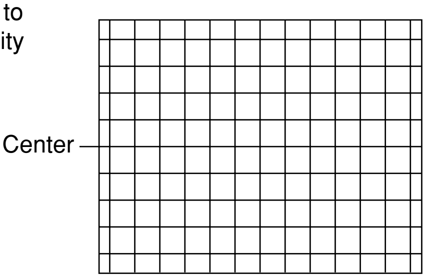
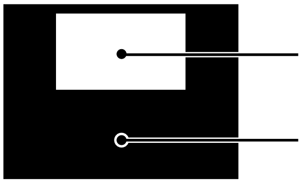
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 26)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENT

ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▼ button to get the picture so the left or right edges of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 10 steps. Note : Check the horizontal picture position is correct.
VERTICAL LINEARITY (VLIN)	1. Call up the adjustment mode display, then select the item **VLIN**. 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME ▲ or ▼ button to obtain the picture of the best linearity 
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▼ button to get the picture so the top or bottom of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 11 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (RDRV) (BDRV)	Black and White pattern  High light area Adjust "RDRV" or "BDRV" to be white. Low light area Fine adjust "RCUT", "GCUT" or "BCUT" to be black. 1. Set user control to reset position. (CONTRAST → Max BRIGHTNESS, COLOR, TINT → Center.) 2. Call up the adjustment mode display, then select the item RCUT. 3. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H". 4. Press the -/-- button on Remote. (Y-MUTE : ON) 5. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them. (Lookin to the lens in order to check the raster.) 6. Press the -/-- button on Remote. (Return to Normal Picture) 7. Press the –⊙ button on Remote, and select the Black and White pattern. 8. Adjust the data of items **RCUT**, **GCUT** and **BCUT** for proper white-balanced picture in low light area. 9. Adjust the data of items **RDRV** and **BDRV** for proper white-balanced picture in high light area. 10. Check the white balance in both low and high light areas. If necessary, perform again steps from 8 to 9.

CONVERGENCE ADJUSTMENT

1. SCREEN ADJUSTMENT

The adjustment is carried out on eight screens; Wide, Superlive, Cinema and Subtitle screens in both PAL and NTSC modes. When making the adjustments, feed an external signal to make an synchronization.

Note:

The convergence circuit is a circuit to eliminate screen distortion and can not make a drastic correction such as to correct entire screen size. An excessive correction may actuate the protection circuit. So a care will be necessary.

Before proceeding to the adjustment for each screen, always perform the adjustments for vertical size (HIT) and horizontal size (WID) with the main deflection data changed.

Order of the adjusting screens is PAL Wide → PAL Superlive → PAL Cinema → PAL Subtitle → NTSC Wide → NTSC Superlive → NTSC Cinema → NTSC Subtitle.

The menu order is 1~7 .... when the vertical sync is 50 Hz. (In this case, item 8~12 are not displayed)

The menu order is 8~12 .... when the vertical sync is 60 Hz. (In this case, item 1~7 are not displayed)

1-1. Entering the Adjustment Menu

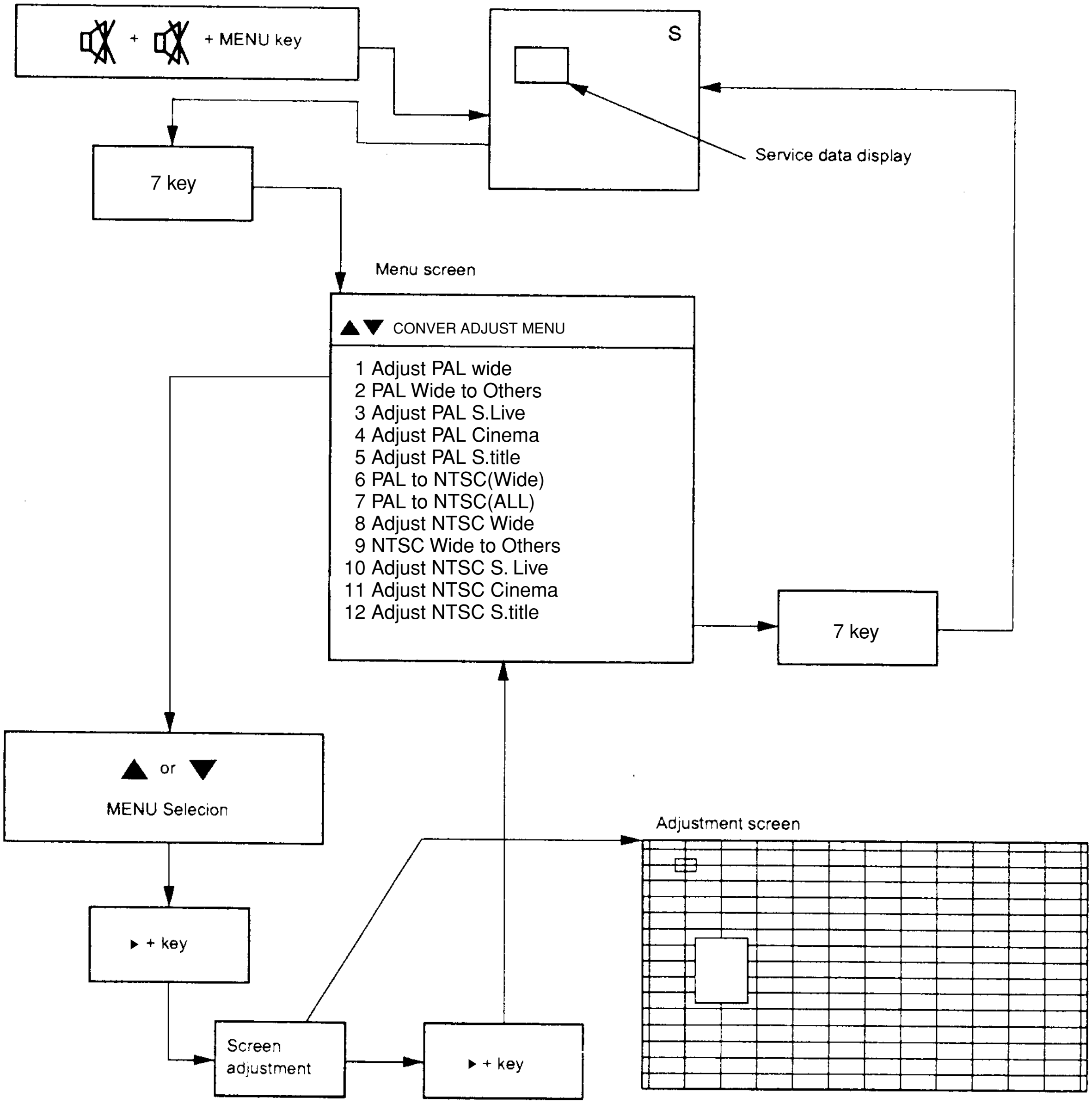
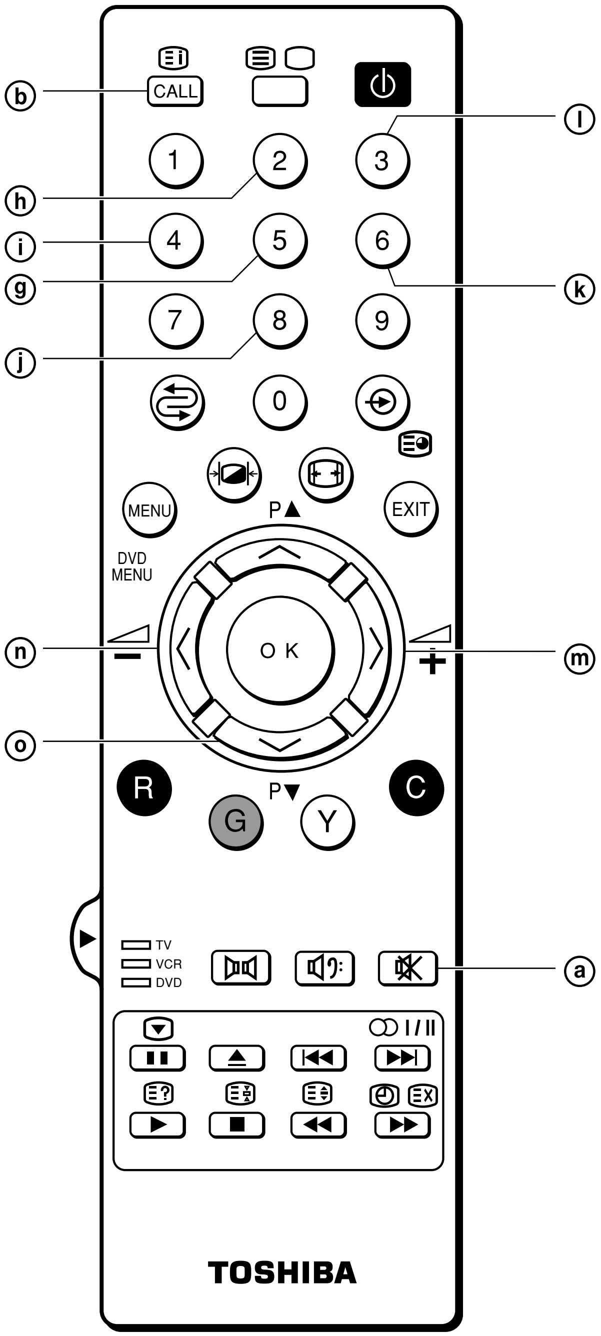

+ + MENU key
S
Service data display
7 key
Menu screen
▲▼ CONVER ADJUST MENU
1 Adjust PAL wide
2 PAL Wide to Others
3 Adjust PAL S.Live
4 Adjust PAL Cinema
5 Adjust PAL S.title
6 PAL to NTSC(Wide)
7 PAL to NTSC(ALL)
8 Adjust NTSC Wide
9 NTSC Wide to Others
10 Adjust NTSC S. Live
11 Adjust NTSC Cinema
12 Adjust NTSC S.title
7 key
▲ or ▼
MENU Selecion
▸ + key
Screen adjustment
▸ + key
Adjustment screen

Fig. 1

1-2. Remote Control Key


ⓑ
CALL
ⓛ
1
2
3
ⓗ
ⓘ
4
5
6
ⓖ
ⓚ
7
8
9
ⓙ
0
MENU
P▲
EXIT
DVD
MENU
ⓝ
O K
ⓜ
ⓞ
R
C
P▼
G
Y
TV
VCR
DVD
ⓐ
I / II
TOSHIBA

ⓐ 🔇 key	Push this key twice and the set console menu key to enter the service mode.
ⓑ F key	Push this key and 7 key to enter and cancel the convergence menu.
ⓖ 5 key	Cursor shift / data change mode change-over.
ⓗ 2 key	Cursor up / adjusting point up.
ⓘ 4 key	Cursor left / adjusting point left
ⓙ 8 key	Cursor down / adjusting point down
ⓚ 6 key	Cursor right / adjusting point right
ⓛ 3 key	Cursor colour change (Adjusting colour selection).
ⓜ ▶ key	Execution key on convergence menu.
ⓝ ▲ key	Up key on convergence menu.
ⓞ ▼ key	Down key on convergence menu.

Fig. 2

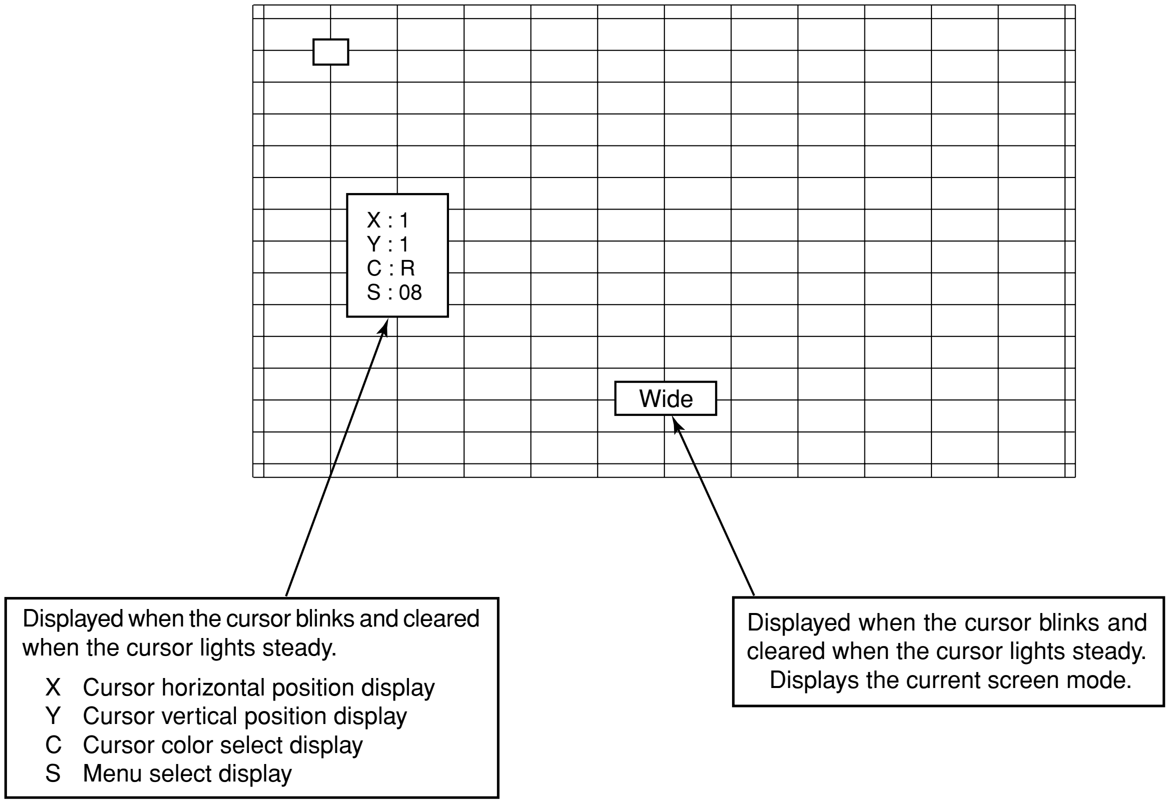
1-3. Adjusting Screen

1) Adjusting menu

NO	Item	Description
1	Adjust PAL Wide	Used for manual adjustment of the Wide/4:3 screen in the PAL mode. Returns to the original screen data screen before data conversion, explained below.
2	PAL Wide to others	Automatically saves approximate supplementary data for the other PAL screens based on the PAL Wide/4:3 screen data. First, the PAL Wide/4:3 screen data are converted to Super Live and the values are saved. Next, the data are converted to Cinema and the values are saved. Finally, the data are converted to Subtitle and the values are saved, and then the operation ends. Manually check the other screen modes as described below and make corrections if distortion, etc., is present. Please be aware that all PAL screens are re-adjusted when this menu is selected and executed.
3	Adjust PAL S.Live	Used for manual adjustment of the PAL Super Live screen. Select this mode for Super Live screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
4	Adjust PAL Cinema	Used for manual adjustment of the PAL Cinema screen. Select this mode for Cinema screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
5	Adjust PAL S.title	Used for manual adjustment of the PAL S.title screen. Select this mode for S.title screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
6	PAL to NTSC (Wide)	PAL Wide/4:3 screen data is calculated, converted to NTSC Wide/4:3 approximate data and saved. To assure accurate adjustments, select the manual mode explained below and check, then apply color matching and distortion adjustments.
7	PAL to NTSC (All)	Data for all PAL screens is converted to approximate data for the NTSC screens and saved. To assure accurate adjustments, select the manual mode explained below and check, then apply color matching and distortion adjustments.
8	Adjust NTSC Wide	Used for manual adjustment of the NTSC Wide/4:3 screen. Select this mode for Wide/4:3 screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
9	NTSC Wide to others	Approximate supplementary data for the other NTSC screens is automatically saved based on the NTSC Wide/4:3 screen data. First, the NTSC Wide/4:3 screen data are converted to Super Live and the values are saved. Next, the data are converted to Cinema and the values are saved. Finally, the data are converted to Subtitle and the values are saved, and then the operation ends. Manually check the other screen modes as described below and make corrections if distortion, etc., is present. Please be aware that all NTSC screens are re-adjusted when this menu is selected and executed.

NO	Item	Description
10	Adjust NTSC S.Live	Used for manual adjustment of the NTSC Super Live screen. Select this mode for Super Live screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
11	Adjust NTSC Cinema	Used for manual adjustment of the NTSC Cinema screen. Select this mode for Cinema screen color matching and distortion adjustment. Use the specified dimensions when adjusting.
12	Adjust NTSC S.title	Used for manual adjustment of the NTSC Subtitle screen. Select this mode for Subtitle screen color matching and distortion adjustment. Use the specified dimensions when adjusting.

2) Adjustment Screen



Displayed when the cursor blinks and cleared when the cursor lights steady.

X	Cursor horizontal position display
Y	Cursor vertical position display
C	Cursor color select display
S	Menu select display

Displayed when the cursor blinks and cleared when the cursor lights steady.
Displays the current screen mode.

3) Adjustment Sequence

When the initial screen opens, X = 1, Y = 1, C = R and S = [Select Menu] are displayed as the defaults. The cursor can now be moved up, down, left and right using the (2), (8), (4) and (6) keys of the remote control. Select the desired adjustment and press the (5) key; the cursor will light steady and the screen display will be cleared. Again press the (2), (8), (4) and (6) keys of the remote control to adjust the shape of the screen. When adjustment has been completed, press the (+) key to return to the Adjustment Menu. When all of the screen adjustments have been completed, turn off the main power supply of the set to reset the menu.

2. Case Study

In many cases, color matching problems can be solved by returning the HIT and WID data for main deflection to the initial adjustment values. Convergence cannot be re-adjusted in the following cases.

2-1 When the CRT has been replaced

Main deflection re-adjustment and color matching are necessary when the CRT has been replaced. Use the following procedure.

1. Replace the blue and red CRTs.
2. Perform the blue and red yoke horizontal adjustments in relation to the green CRT. Press the yokes and speed modulation coils + alignments onto the CRTs and fasten after making sure that there are no gaps.
3. Adjust the blue and red alignments (refer to the detailed alignment adjustment item).
4. Use centering magnets to center the blue and red CRTs in relation to the green CRT.
5. Adjust the main deflection HIT and WID data, using the most accurate location in relation to the green as data.
6. Use convergence to match the colors for each screen. Green will not work at this time.
7. When the convergence adjustments have been completed for all screens, then replace the green CRT.

Repeat the procedures in steps 2 - 5 for the green CRT but this time use convergence to match the colors using red and blue as reference.

2-2 When replacing the convergence unit

Generally, all of the screens must be re-adjusted when the convergence unit is replaced, but the process can be greatly shortened by using the following method.

1. Replace the memory (Q711, Q712, Q713) of the new unit with the memory (Q711, Q712, Q713) of the defective unit. This makes it possible to quickly reproduce the previous screen status when installed in the set.
2. Install the new unit with the old memory in the set and turn on the power. The entire screen will move linearly in either the vertical or horizontal direction.
3. Use centering magnets to re-adjust the green, red and blue centers.
4. There is possibility of color mismatching or differences in screen size when the various screens are checked. In such case, adjust the main deflection and apply a slight amount of convergence color matching.

2-3 When none of the above cases apply (rare case)

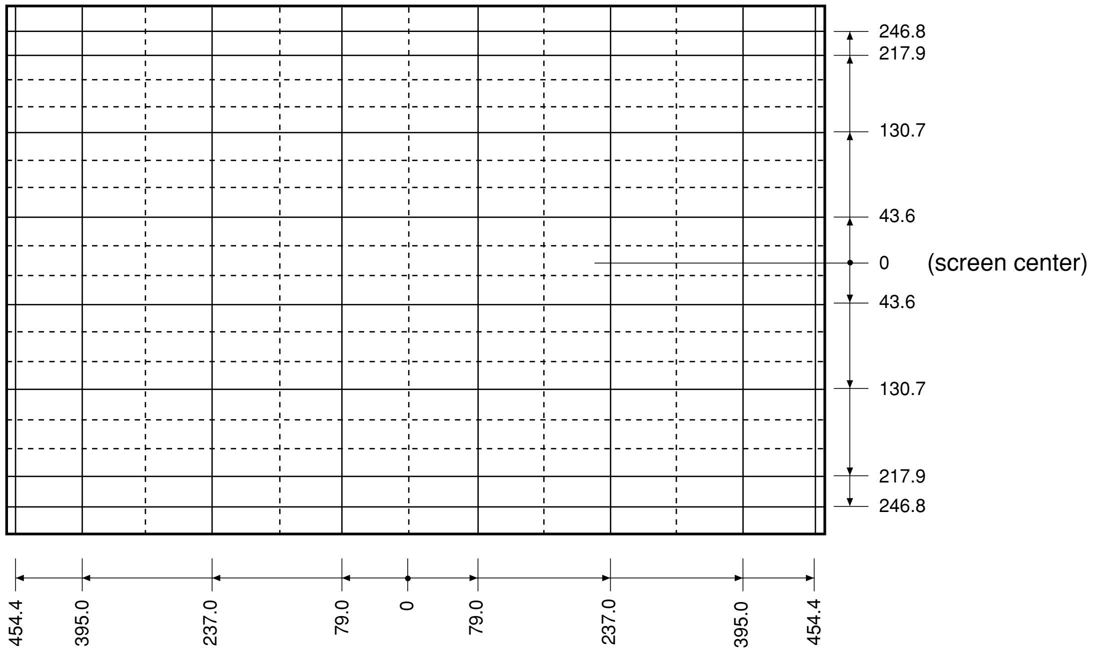
An unexpected situation or major operational error, etc., could be considered but it is recommended that all screens be matched starting from the beginning. If the initial positions of the centering magnets are unknown, disconnect the connectors for the convergence sub-yoke outputs one at a time, adjust the CRT centering and then start the following adjustments.

1. Make sure that there is plenty of room for the static cross convergence to be moved left, right, up and down. If sufficient space is not available, move to an appropriate location and then re-adjust the centering.
2. Enter the convergence adjustment mode and call out the menu. (Leave the PAL signal connected.)
3. Select 1. Adjust PAL Wide and adjust the PAL mode Wide/4:3 screen manually in accordance with the dimension diagram.
4. When the Wide/4:3 screen adjustment has been completed, return to the Main Menu and select 2. PAL Wide to others.
   The screen will change automatically and the Wide, Cinema and Subtitle screens will be created automatically.
5. Next, select 3. Adjust PAL S.Live and mainly adjust in the horizontal direction in accordance with the dimension diagram.
6. Next, select 4. Adjust PAL Cinema and fine adjust to remove any Cinema screen distortion.
7. Next, select 5. Adjust PAL Subtitle and fine adjust to remove any Subtitle screen distortion.
8. Next, select 7. PAL to NTSC (ALL), then calculate and copy the data for all PAL screens in the NTSC mode. At this time, the calculations and screen shape changes will be performed automatically and the NTSC screen data corresponding to the PAL screens will be transferred.
9. Select in sequence 8. Adjust NTSC Wide, 10. Adjust NTSC S.Live, 11. Adjust NTSC Cinema and 12. Adjust NTSC Subtitle, check the respective NTSC screen modes and, if necessary, adjust for any distortion.

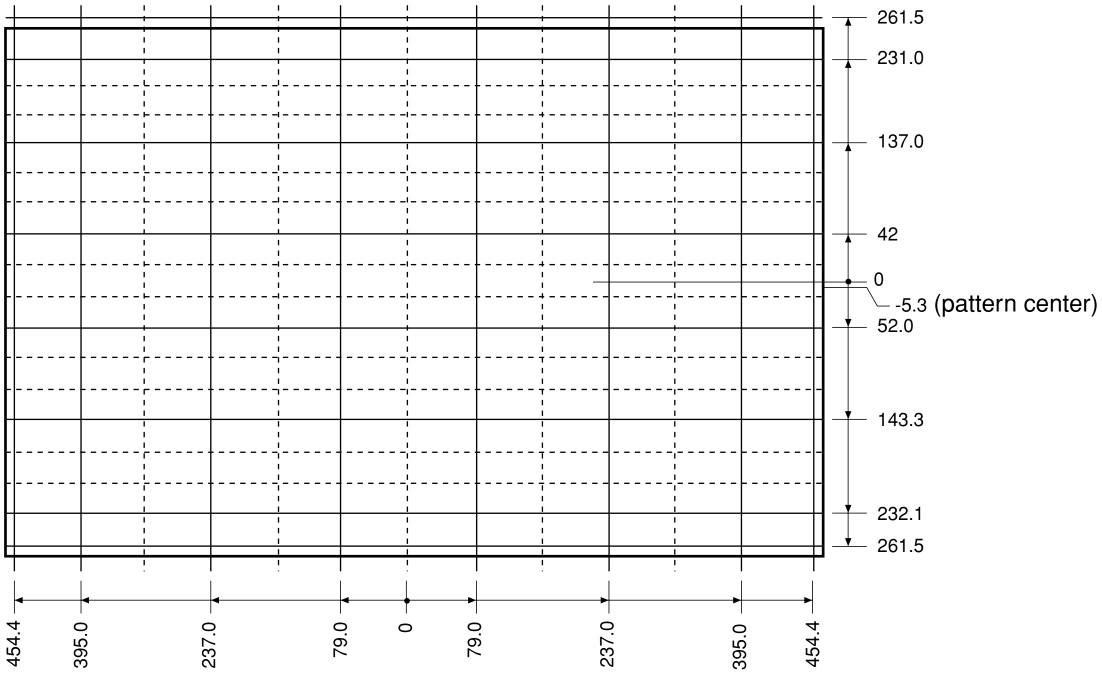
All of the screens can be adjusted with the above process but make every effort not to change the factory data unless absolutely necessary. Try not to change the convergence data any more than necessary.

3 Screen adjustment dimensions

3-1 WIDE/4:3 (PAL mode)


246.8
217.9
130.7
43.6
0 (screen center)
43.6
130.7
217.9
246.8
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

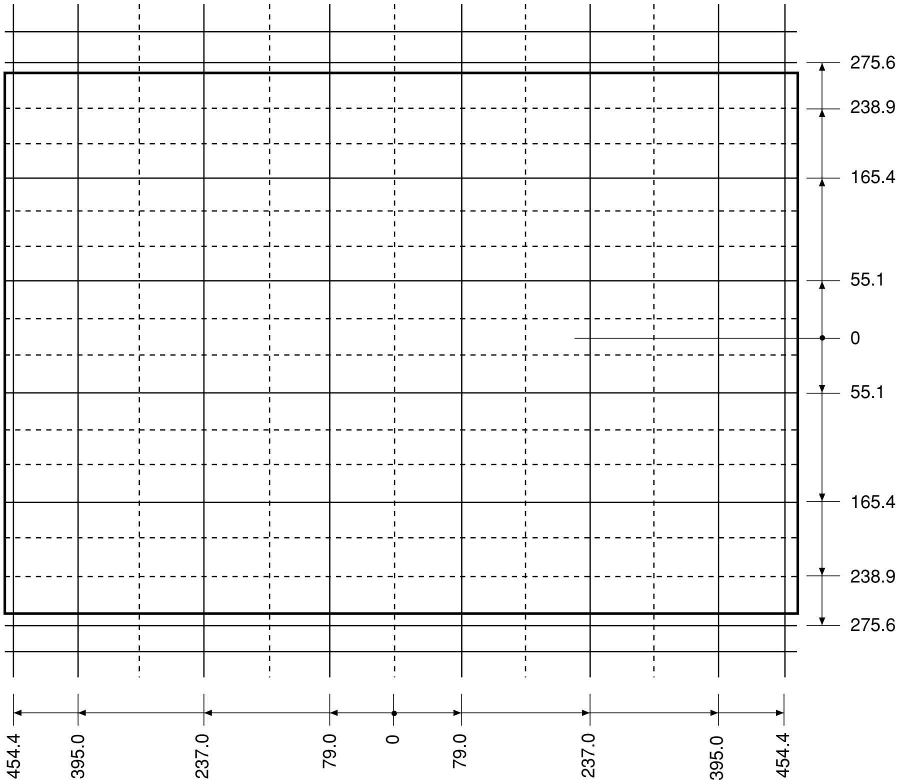
3-2 Super Wide (PAL mode)


261.5
231.0
137.0
42
0
-5.3 (pattern center)
52.0
143.3
232.1
261.5
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

Caution: Do not perform the VLIN adjustment.

3-3 Cinema (PAL mode)

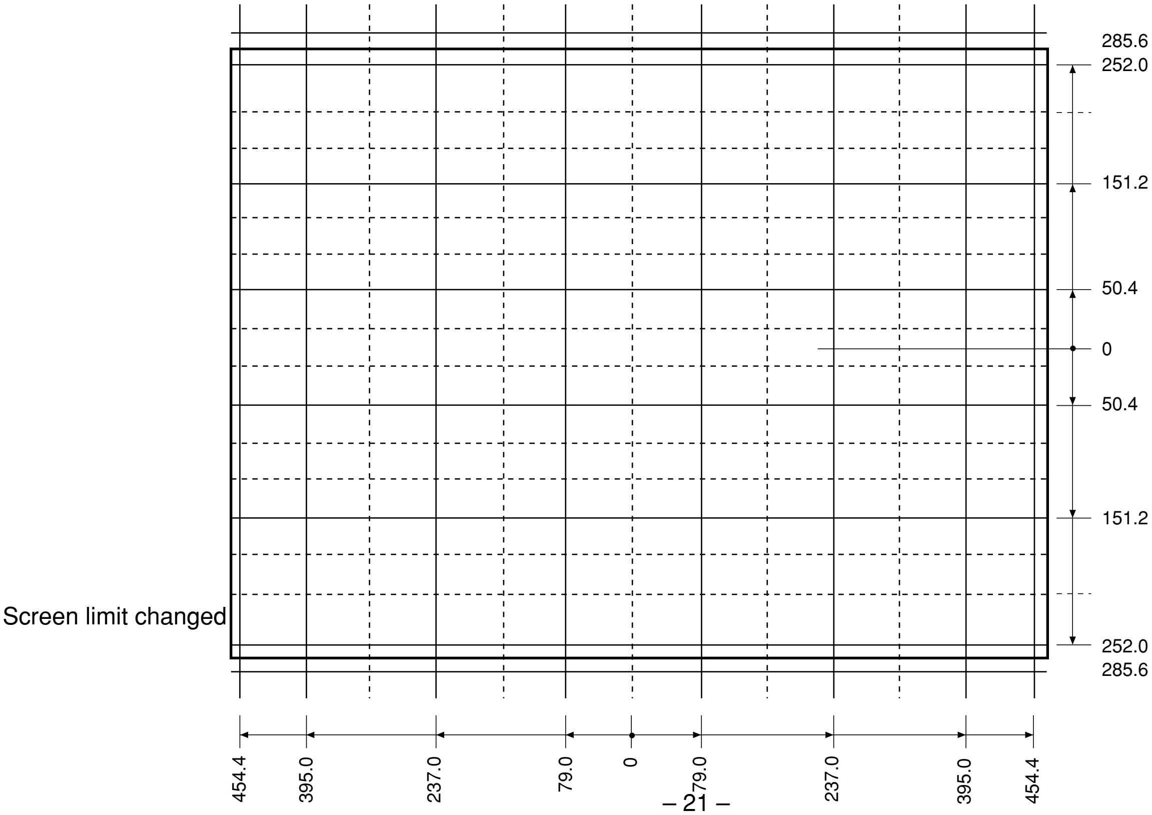
Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.


275.6
238.9
165.4
55.1
0
55.1
165.4
238.9
275.6
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

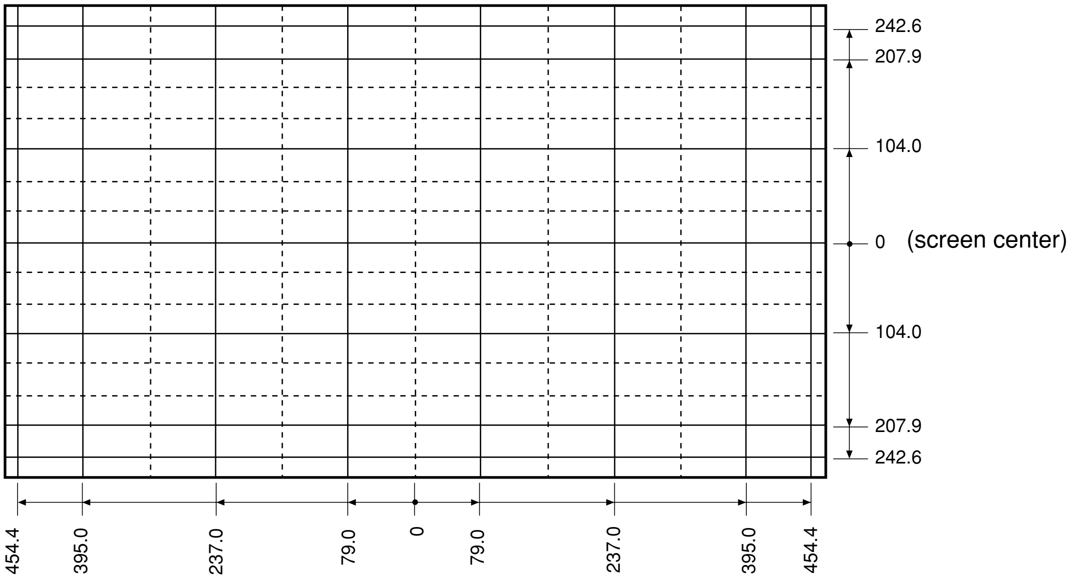
3-4 Subtitle (PAL mode)

Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

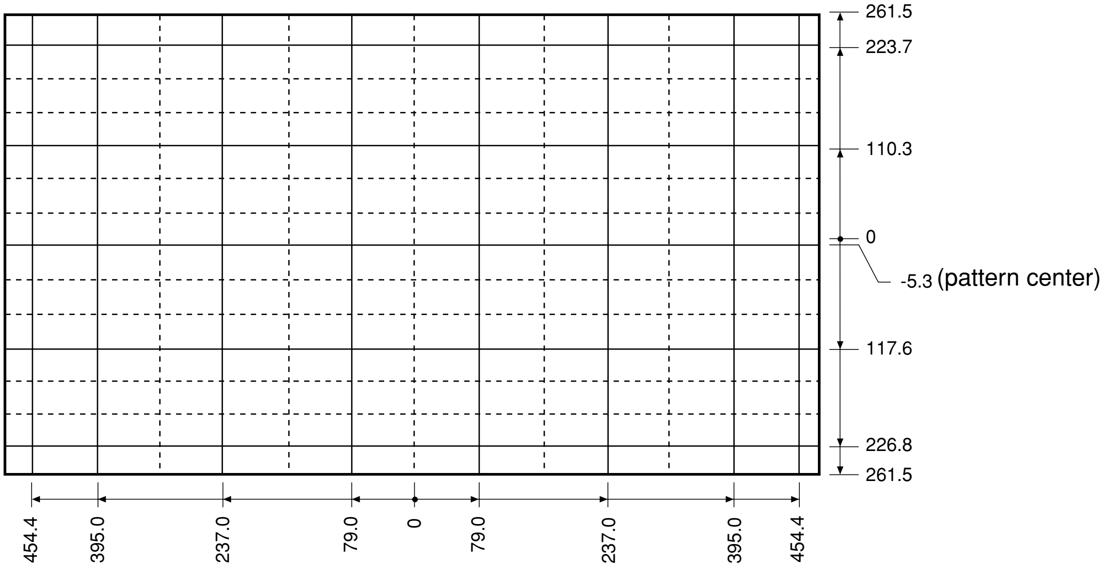
Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.


285.6
252.0
151.2
50.4
0
50.4
151.2
252.0
285.6
Screen limit changed
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

3-5 WIDE/4:3 (NTSC mode)


242.6
207.9
104.0
0 (screen center)
104.0
207.9
242.6
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

3-6 Super Live (NTSC mode)

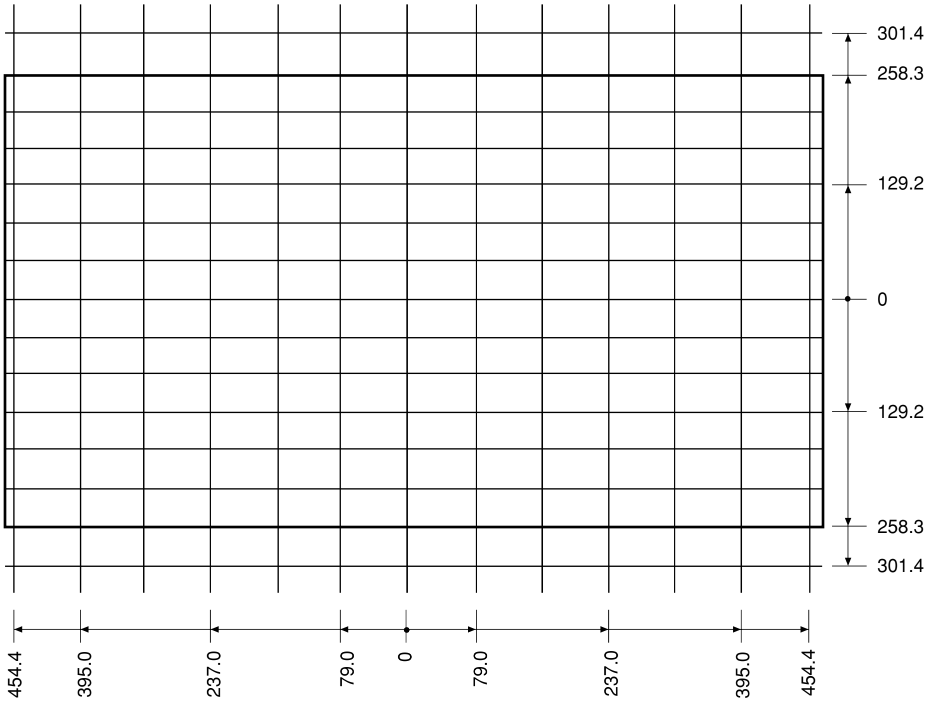

261.5
223.7
110.3
0
-5.3 (pattern center)
117.6
226.8
261.5
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

Caution: Do not perform the VLIN adjustment.

3-7 Cinema (NTSC mode)

Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Cinema screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.

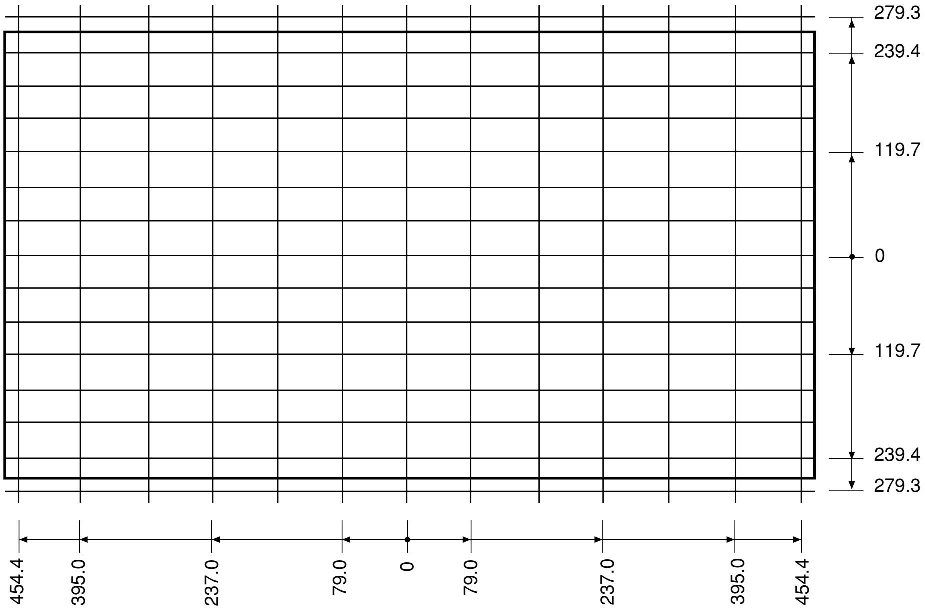


301.4
258.3
129.2
0
129.2
258.3
301.4
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

3-8 Subtitle (NTSC mode)

Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 32mm above that.



279.3
239.4
119.7
0
119.7
239.4
279.3
454.4
395.0
237.0
79.0
0
79.0
237.0
395.0
454.4

SCREEN AND MIRROR ALIGNMENTS

ASSEMBLING AND MOUNTING OF FRONT SCREEN

* Please refer to MECHANICAL DISASSEMBLY page 29.

CLEANING OF LENS AND MIRROR

CAUTION : Do not hold the optical system parts (lens and mirror) with bare hand to avoid finger-prints on the surface of those parts.

HOW TO CLEAN LENS AND MIRROR

1. Be sure to remove sand dust with an air brush, etc.
2. When it is stained slightly, breathe upon it and wipe away with the specified cleaning cloth.
   For other stains than the above, wipe the stains away with the specified cloth into which a cleaning liquid has been soaked.

Cleaning liquid .... **LENS LUSTER** (Manufactured by Edmund Scientific Co.), etc.

HOW TO CLEAN SCREEN

When cleaning the screen, use a soft cloth so as not to damage the screen.

1. Wipe the stain away with a diluted neutral detergent soaked cloth.
2. Wipe the detergent away with a water soaked cloth.
3. Wipe the screen with a dry cloth to remove moisture on the screen.

Note : Absolutely do not use alcohol, benzine, thinner, etc. for cleaning in order not to wipe away the black print on the surface.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 26)
4. Vary the BRIGHTNESS to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CAUTION:

When the following parts fail, check the High Voltage after replacing.

Location No.	Name	Name
T461	Flyback Trans.	TFB3089AD
C440	Capacitor	2200pF, ±3%
C443	Capacitor	4700pF, ±3%
C444	Capacitor	8200pF, ±3%
C467	Capacitor	12000pF, ±5%
C468	Capacitor	12000pF, ±5%

ANODE VOLTAGE MEASURING METHOD

CAUTION: Take extra precaution when measuring this high voltage. High voltages are also present in surrounding circuit boards (CRT DRIVE assembly, DEFLECTION assembly, and POWER SUPPLY assembly).

1. Disconnect the FBT anode cable as outlined below. Measure high voltage at the point where the cable enters the FBT.
2. Holding the rubber cover firmly, turn it counterclockwise and check that the lock has been disengaged. (See Fig. b on page 8.)
3. Determine the extent of the rubber cover before disconnecting the cable.
4. Pull straight up the anode cable to disconnect.
5. When reconnecting the cable, proceed in the reverse order.
   After reconnecting, tug on the cable to check that it is secure.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		42"
HIGH VOLTAGE AT ZERO BEAM:	(A)	33.3 kV
MAX HIGH VOLTAGE:	(B)	34.5 kV
AC VOLTAGE	(C)	220~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H
GCUT	G CUTOFF (B/W)	40H
BCUT	B CUTOFF (B/W)	40H
RDRV	R DRIVE	40H
BDRV	B DRIVE	40H
CNTX	SUB CONTRAST MAX	7FH
BRTC	SUB BRIGHT CEN	80H
COLC	SUB COLOR CEN NTSC	02H
TNTC	SUB TINT CEN	1EH
COLP	SUB COLOR CEN PAL	05H
COLS	SUB COLOR CEN SECAM	08H
COLD	SUB COLOR CEN DTV	41H
SCNT	SUB CONTRAST	08H
SRY	SECAM R-Y	07H
SBY	SECAM B-Y	04H
HPOS	50Hz H-POSITION	14H

Item	Adjustment	Reference data
VPOS	V-POSITION	02H
HIT	HEIGHT	2EH
GMPS	V-POSITION (RASTER)	00H
VLIN	V-LINEARITY	0FH
VSC	V-S CORRECTION	10H
VPS	V-SHIFT	18H
VCP	V-COMPENSATION	0AH
WID	PICTURE WIDTH	2BH
PARA	E-W PARABOLA	1CH
CNR	E-W CORNER	08H
TRAP	TRAPEZIUM	10H
HCP	H-COMPENSATION	00H
VFC	V-F CORRECTION	00H
VCEN	V-POSITION (RASTER)	80H
VCE1	CINEMA	00H
VCE2	STTL/14:9	00H

Table-2

【 DESIGN MODE 】

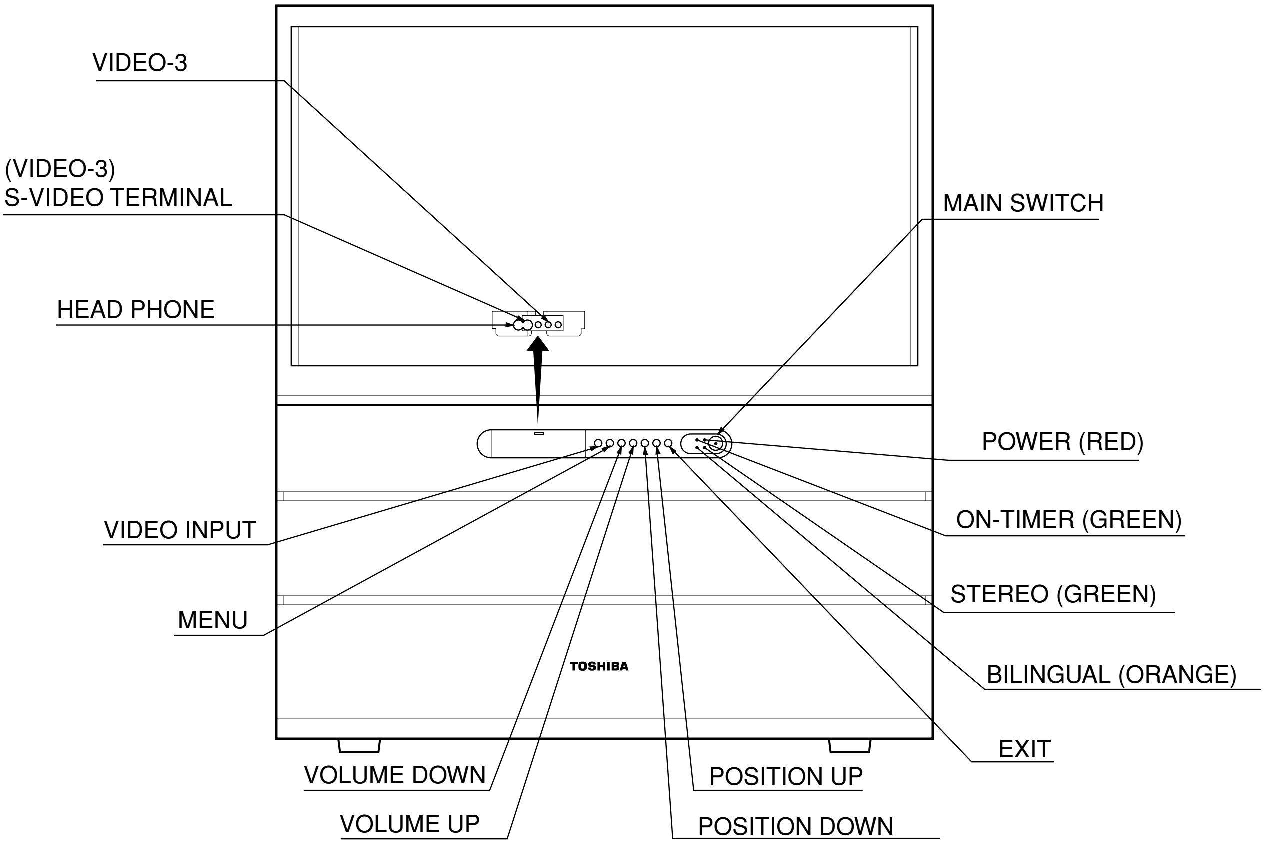
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	42"	Remarks
OPT0	OPTION 0	80H	80H	
OPT1	OPTION 1	4CH	4CH	
OPT2	OPTION 2	20H	20H	
OPT3	OPTION 3	00H	00H	
OPT4	OPTION 4	01H	01H	

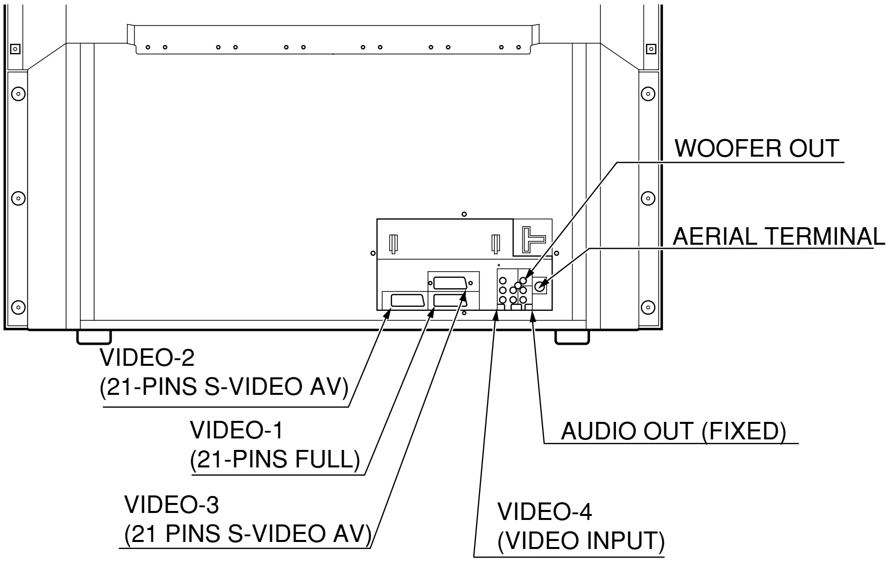
Table-3

LOCATION OF CONTROLS

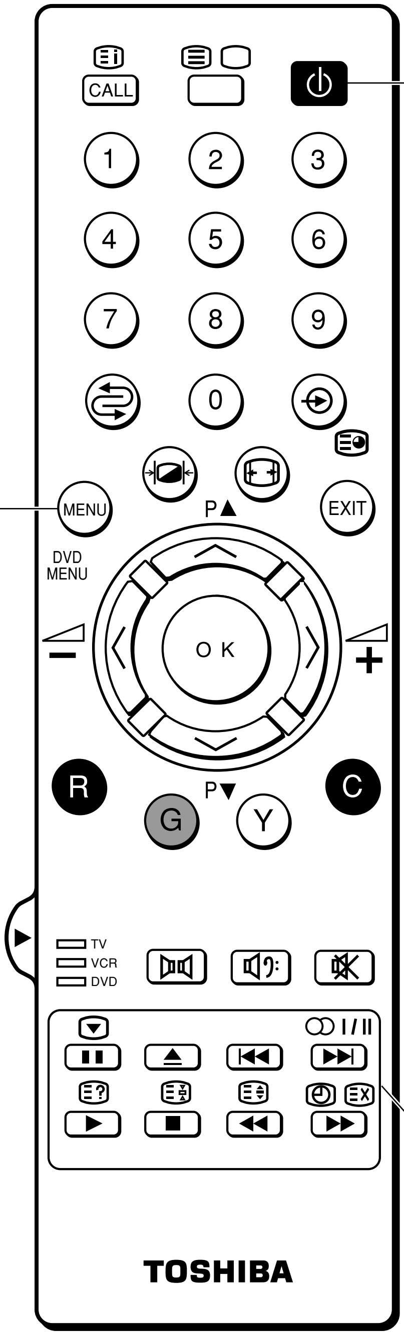
Front


VIDEO-3
(VIDEO-3)
S-VIDEO TERMINAL
HEAD PHONE
MAIN SWITCH
POWER (RED)
ON-TIMER (GREEN)
VIDEO INPUT
STEREO (GREEN)
MENU
TOSHIBA
BILINGUAL (ORANGE)
EXIT
VOLUME DOWN
POSITION UP
VOLUME UP
POSITION DOWN

Back


WOOFER OUT
AERIAL TERMINAL
VIDEO-2
(21-PINS S-VIDEO AV)
VIDEO-1
(21-PINS FULL)
AUDIO OUT (FIXED)
VIDEO-3
(21 PINS S-VIDEO AV)
VIDEO-4
(VIDEO INPUT)

Remote Controller


CALL
1
2
3
4
5
6
7
8
9
0
MENU
P▲
EXIT
DVD MENU
O K
R
C
P▼
G
Y
TV
VCR
DVD
I / II
TOSHIBA

Power Key: TV, VCR, DVD

MENU
&
Cursor:
TV, DVD

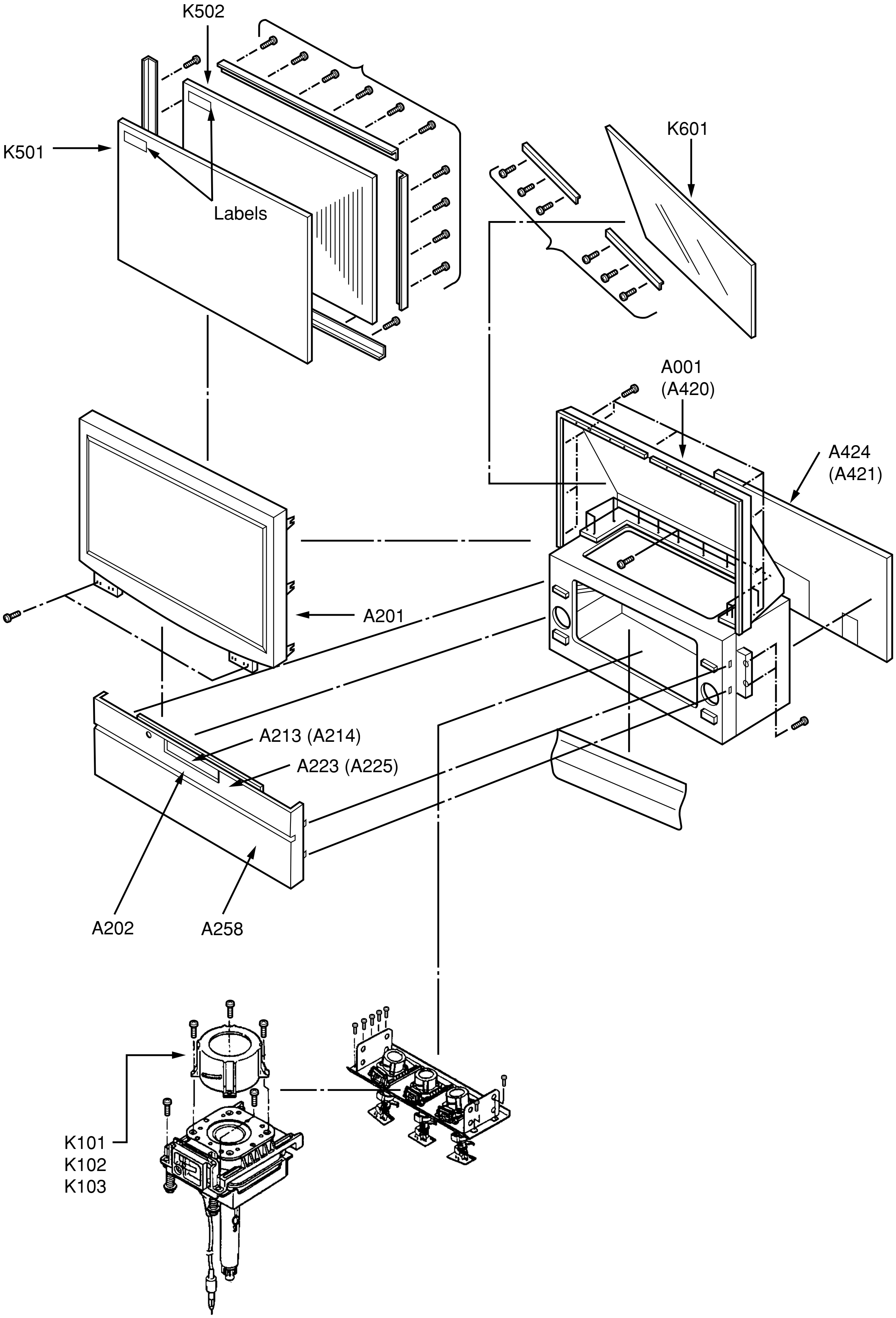
Switched
TV Mode
VCR Mode
DVD Mode

1. TEXT Sub Function
   <HOLD, REVEAL, F-T-B, TIME/TXCL, SUB PAGE>
   ---------------- Only TV mode operation

2. VCR & DVD Common
   <Power, Play, Stop, Pause, Eject,
   ⏻ ▶ ■ ❚❚ ⏏
   FF, REV, Skip - FWD, Skip - REV>
   ▶▶ ◀◀ ▶▶| |◀◀

3. Key Name (by special characters)
   ⏻ --------------- Power ON - Stanby
   -------------- TEXT INDEX
   ----------- TEXT / TV
   -------------- VIDEO INPUT
   ----------- SELECTABLE PICTURE
   -------------- MUTE
   +◢- ------------ VOLUME +, –
   ▲P▼ ------------- POSITION(CH.) Up/Down
   -------------- Size
   -------------- STILL PICTURE
   --------------- Sub Woofer
   --------------- SURROUND
   I/II ----------- Stereo Bilingual
   --------------- Previous Ch.
   i ---------------- INFO.

MECHANICAL DISASSEMBLY


K502
K501
Labels
K601
A001
(A420)
A424
(A421)
A201
A213 (A214)
A223 (A225)
A202
A258
K101
K102
K103

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE “X-RAY RADIATION PRECAUTION”, “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols “⚠” in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE . Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	:	Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	:	Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	:	Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Models : 42PW23P

Location No.	Parts No.	Description
CAPACITORS		
C102	24793221	ELECTROLYTIC, 10V 220UF M
C105	24109102	CERAMIC CHIP, 50V B 1000PF K
C106	24797100	ELECTROLYTIC, 50V 10UF M
C108	24793221	ELECTROLYTIC, 10V 220UF M
C109	24109103	CERAMIC CHIP, 50V B 10000PF K
C115	24109103	CERAMIC CHIP, 50V B 10000PF K
C160	24567224	PLASTIC FILM, 50V 0.22UF J
C170	24567104	PLASTIC FILM, 50V 0.1UF J
C201	24092730	CERAMIC CHIP, 16V B 0.1UF K
C202	24109103	CERAMIC CHIP, 50V B 10000PF K
C204	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C205	24797229	ELECTROLYTIC, 50V 2.2UF M
C206	24794220	ELECTROLYTIC, 16V 22UF M
C212	24794100	ELECTROLYTIC, 16V 10UF M
C214	24503047	PLASTIC FILM, 63V 0.33UF J
C219	24105100	CERAMIC CHIP, 50V CH 10PF D
C220	24763101	ELECTROLYTIC, 16V 100UF M
C221	24105100	CERAMIC CHIP, 50V CH 10PF D
C222	24105100	CERAMIC CHIP, 50V CH 10PF D
C261	24794101	ELECTROLYTIC, 16V 100UF M
C262	24109103	CERAMIC CHIP, 50V B 10000PF K
C263	24085967	ELECTROLYTIC, NONPOLAR, 16V 47UF M 11L
C264	24794100	ELECTROLYTIC, 16V 10UF M
C265	24085967	ELECTROLYTIC, NONPOLAR, 16V 47UF M 11L
C266	24794100	ELECTROLYTIC, 16V 10UF M
C301	24092730	CERAMIC CHIP, 16V B 0.1UF K
C302	24092753	CERAMIC CHIP, 10V B 220NF K
C304	24092730	CERAMIC CHIP, 16V B 0.1UF K
C305	24092730	CERAMIC CHIP, 16V B 0.1UF K
C306	24105102	CERAMIC CHIP, 25V CH 1000PF J
C307	24567225	PLASTIC FILM, 50V 2.2UF J
C308	24092733	CERAMIC CHIP, 50V B 22000PF K
C309	24105102	CERAMIC CHIP, 25V CH 1000PF J
C310	24669101	ELECTROLYTIC, 50V 100UF M 3A
C311	24109103	CERAMIC CHIP, 50V B 10000PF K
C312	24105102	CERAMIC CHIP, 25V CH 1000PF J
C313	24666101	ELECTROLYTIC, 16V 100UF M 3A
C314	24092730	CERAMIC CHIP, 16V B 0.1UF K
C315	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C316	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C317	24109222	CERAMIC CHIP, 50V B 2200PF K
C318	24109222	CERAMIC CHIP, 50V B 2200PF K
C319	24092785	CERAMIC CHIP, 10V B 0.47UF K
C320	24669101	ELECTROLYTIC, 50V 100UF M 3A
C321	24669101	ELECTROLYTIC, 50V 100UF M 3A
C322	24109473	CERAMIC CHIP, 25V B 47000PFK
C323	24109473	CERAMIC CHIP, 25V B 47000PFK
C324	24669101	ELECTROLYTIC, 50V 100UF M 3A
C325	24503045	PLASTIC FILM, 63V 0.22UF J
C326	24092785	CERAMIC CHIP, 10V B 0.47UF K
C327	24092753	CERAMIC CHIP, 10V B 220NF K
C328	24082260	PLASTIC FILM, 100V 4700PF J
C329	24669100	ELECTROLYTIC, 50V 10UF M 3A
C330	24085946	ELEC. NONPOLAR, 16V 10UF M 3A
C332	24669221	ELECTROLYTIC CE04Q 50V 220UF M 3A
C333	24693473	PLASTIC FILM, 100V 0.047UF J
C334	24109471	CERAMIC CHIP, 50V B 470PF K
C335	24092730	CERAMIC CHIP, 16V B 0.1UF K
C336	24109473	CERAMIC CHIP, 25V B 47000PFK
C338	24666330	ELECTROLYTIC, 16V 33UF M 3A
C339	24667101	ELECTROLYTIC, 25V 100UF M 3A
C340	24666330	ELECTROLYTIC, 16V 33UF M 3A
C370	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C371	24092730	CERAMIC CHIP, 16V B 0.1UF K
C401	24214821	CERAMIC DISC, 500V B 820PF K
C402	24214391	CERAMIC DISC, 500V B 390PF K
C404	24212152	CERAMIC DISC, 50V B 1500PF K
C405	24503042	PLASTIC FILM, 63V 0.12UF J
C406	24678100	ELECTROLYTIC, 200V 10UF M 3A
C412	24828823	PLASTIC FILM CQ92 T 200V 82000PF J
C415	24092484	CERAMIC DISC, 2KV B 1500PF K
C416	24828333	PLASTIC FILM, 200V 33000PF J
C417	24679229	ELECTROLYTIC, 250V 2.2UF M 3A
⚠ C423	24503281	MT PLA CAP T 400V 474J
C426	24211222	CERAMIC DISC, 2KV B 2200PFK

Location No.	Parts No.	Description
C432	24567223	PLASTIC FILM, 50V 22000PF J
C433	24567473	PLASTIC FILM, 50V 47000PF J
C440	24082823	PLASTIC FILM, 1800VH 1500PF H
⚠ C443	24503146	PLASTIC FILM, 1500VH 4700PF H
C444	24082944	PLASTIC FILM, 1500VH 3900PF H
C445	24828473	PLASTIC FILM, 200V 47000PF J
C446	24679330	ELECTROLYTIC, 250V 33UF M 3A
C448	24640908	ELECTROLYTIC, 160V 33UF M 3A LI
C449	24214221	CERAMIC DISC, 500V B 220PF K
C460	24679479	ELECTROLYTIC, 250V 4.7UF M 3A
C463	24109103	CERAMIC CHIP, 50V B 10000PF K
⚠ C464	24503149	PLASTIC FILM, 250V 3.3UF K
C465	24109103	CERAMIC CHIP, 50V B 10000PF K
C466	24109472	CERAMIC CHIP, 50V B 4700PF K
C467	24820123	PLASTIC FILM, 630V 0.012UF J
C468	24820123	PLASTIC FILM, 630V 0.012UF J
C481	24666101	ELECTROLYTIC, 16V 100UF M 3A
C482	24092733	CERAMIC CHIP, 50V B 22000PF K
C483	24092733	CERAMIC CHIP, 50V B 22000PF K
C484	24109102	CERAMIC CHIP, 50V B 1000PF K
C491	24666100	ELECTROLYTIC, 10V 10UF M 3A
C497	24503049	PLASTIC FILM, 63V 0.47UF J
C498	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C501	24100104	CERAMIC CHIP, 25V F 100000PF Z
C502	24100104	CERAMIC CHIP, 25V F 100000PF Z
C503	24669470	ELECTROLYTIC, 50V 47UF M 3A
C504	24109103	CERAMIC CHIP, 50V B 10000PF K
C505	24669470	ELECTROLYTIC, 50V 47UF M 3A
C506	24109103	CERAMIC CHIP, 50V B 10000PF K
C507	24100104	CERAMIC CHIP, 25V F 100000PF Z
C508	24100104	CERAMIC CHIP, 25V F 100000PF Z
C509	24100104	CERAMIC CHIP, 25V F 100000PF Z
C511	24100104	CERAMIC CHIP, 25V F 100000PF Z
C512	24100104	CERAMIC CHIP, 25V F 100000PF Z
C513	24109103	CERAMIC CHIP, 50V B 10000PF K
C514	24794470	ELECTORLYTIC, 16V 47UF M
C516	24105100	CERAMIC CHIP, 50V CH 10PF D
C517	24797478	ELECTROLYTIC, 50V 0.47UF M
C519	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C521	24092733	CERAMIC CHIP, 50V B 22000PF K
C522	24109103	CERAMIC CHIP, 50V B 10000PF K
C523	24100104	CERAMIC CHIP, 25V F 100000PF Z
C524	24109103	CERAMIC CHIP, 50V B 10000PF K
C525	24567104	PLASTIC FILM, 50V 0.1UF J
C526	24109103	CERAMIC CHIP, 50V B 10000PF K
C527	24797229	ELECTROLYTIC, 50V 2.2UF M
C531	24100104	CERAMIC CHIP, 25V F 100000PF Z
C532	24100104	CERAMIC CHIP, 25V F 100000PF Z
C533	24100104	CERAMIC CHIP, 25V F 100000PF Z
C534	24100104	CERAMIC CHIP, 25V F 100000PF Z
C536	24100104	CERAMIC CHIP, 25V F 100000PF Z
C537	24100104	CERAMIC CHIP, 25V F 100000PF Z
C540	24100104	CERAMIC CHIP, 25V F 100000PF Z
C541	24100104	CERAMIC CHIP, 25V F 100000PF Z
C542	24100104	CERAMIC CHIP, 25V F 100000PF Z
C601	24797010	ELECTROLYTIC, 50V 1UF M
C602	24797010	ELECTROLYTIC, 50V 1UF M
C603	24591102	PLASTIC FILM, 50V 1000PF J
C604	24591102	PLASTIC FILM, 50V 1000PF J
C605	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C606	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C607	24667470	ELECTROLYTIC, 25V 47UF M 3A
C608	24667470	ELECTROLYTIC, 25V 47UF M 3A
C609	24667470	ELECTROLYTIC, 25V 47UF M 3A
C610	24669479	ELECTROLYTIC, 50V 4.7UF M 3A

Location No.	Parts No.	Description
C612	24669102	ELECTROLYTIC CE04Q 50V 1000UF M 3A
C613	24503042	PLASTIC FILM, 63V 0.12UF J
C614	24503042	PLASTIC FILM, 63V 0.12UF J
C615	24669102	ELECTROLYTIC CE04Q 50V 1000UF M 3A
C616	24669102	ELECTROLYTIC CE04Q 50V 1000UF M 3A
C617	24669220	ELECTROLYTIC, 50V 22UF M 3A
C618	24797478	ELECTROLYTIC, 50V 0.47UF M
C619	24794471	ELECTROLYTIC, 16V 470UF M
C621	24797220	ELECTROLYTIC, 50V 22UF M
C622	24591103	PLASTIC FILM, 50V 0.01MF J
C624	24794100	ELECTROLYTIC, 16V 10UF M
C626	24797478	ELECTROLYTIC, 50V 0.47UF M
C627	24797220	ELECTROLYTIC, 50V 22UF M
C628	24797100	ELECTROLYTIC, 50V 10UF M
C629	24591124	PLASTIC FILM, 50V 0.12UF J
C631	24797220	ELECTROLYTIC, 50V 22UF M
C633	24795221	ELECTROLYTIC, 25V 220UF M
C634	24765101	ELECTROLYITC, 35V 100UF M
C636	24797100	ELECTROLYTIC, 50V 10UF M
C639	24793101	ELECTROLYTIC, 10V 100UF M
C700	24353151	CERAMIC DISC CC45CH 50V 150PF J
C701	24105330	CERAMIC CHIP, 50V CH 33PF J
C702	24105330	CERAMIC CHIP, 50V CH 33PF J
C703	24105330	CERAMIC CHIP, 50V CH 33PF J
C704	24105330	CERAMIC CHIP, 50V CH 33PF J
C705	24100104	CERAMIC CHIP, 25V F 100000PF Z
C706	24100104	CERAMIC CHIP, 25V F 100000PF Z
C707	24100104	CERAMIC CHIP, 25V F 100000PF Z
C708	24100104	CERAMIC CHIP, 25V F 100000PF Z
C710	24100104	CERAMIC CHIP, 25V F 100000PF Z
C711	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C712	24105330	CERAMIC CHIP, 50V CH 33PF J
C713	24105330	CERAMIC CHIP, 50V CH 33PF J
C714	24100104	CERAMIC CHIP, 25V F 100000PF Z
C715	24092730	CERAMIC CHIP, 16V B 0.1UF K
C716	24092730	CERAMIC CHIP, 16V B 0.1UF K
C717	24105470	CERAMIC CHIP, 50V CH 47PF J
C718	24105470	CERAMIC CHIP, 50V CH 47PF J
C719	24794101	ELECTROLYTIC, 16V 100UF M
C720	24100104	CERAMIC CHIP, 25V F 100000PF Z
C721	24105070	CERAMIC CHIP CC73CH 50V 7PF D
C724	24100104	CERAMIC CHIP, 25V F 100000PF Z
C725	24100104	CERAMIC CHIP, 25V F 100000PF Z
C726	24100104	CERAMIC CHIP, 25V F 100000PF Z
C727	24100104	CERAMIC CHIP, 25V F 100000PF Z
C730	24100104	CERAMIC CHIP, 25V F 100000PF Z
C731	24100104	CERAMIC CHIP, 25V F 100000PF Z
C732	24109103	CERAMIC CHIP, 50V B 10000PF K
C735	24092730	CERAMIC CHIP, 16V B 0.1UF K
C736	24100104	CERAMIC CHIP, 25V F 100000PF Z
C739	24100104	CERAMIC CHIP, 25V F 100000PF Z
C740	24100104	CERAMIC CHIP, 25V F 100000PF Z
C741	24794470	ELECTORLYTIC, 16V 47UF M
C742	24794470	ELECTORLYTIC, 16V 47UF M
C743	24100104	CERAMIC CHIP, 25V F 100000PF Z
C744	24100104	CERAMIC CHIP, 25V F 100000PF Z
C745	24794470	ELECTORLYTIC, 16V 47UF M
C746	24794470	ELECTORLYTIC, 16V 47UF M
C747	24100104	CERAMIC CHIP, 25V F 100000PF Z
C748	24100104	CERAMIC CHIP, 25V F 100000PF Z
C749	24794470	ELECTORLYTIC, 16V 47UF M
C750	24794470	ELECTORLYTIC, 16V 47UF M
C761	24105102	CERAMIC CHIP, 25V CH 1000PF J
C762	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C763	24105391	CERAMIC CHIP CC73CH 50V 390pF J

Location No.	Parts No.	Description
C765	24105102	CERAMIC CHIP, 25V CH 1000PF J
C766	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C767	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C769	24105102	CERAMIC CHIP, 25V CH 1000PF J
C770	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C771	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C772	24761221	ELECTROLYTIC CE04G 6.3V 220UF M
C773	24105102	CERAMIC CHIP, 25V CH 1000PF J
C774	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C775	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C777	24105102	CERAMIC CHIP, 25V CH 1000PF J
C778	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C779	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C781	24105102	CERAMIC CHIP, 25V CH 1000PF J
C782	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C783	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C784	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C785	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C786	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C787	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C788	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C789	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C795	24761221	ELECTROLYTIC CE04G 6.3V 220UF M
C798	24763101	ELECTROLYTIC, 16V 100UF M
C799	24763101	ELECTROLYTIC, 16V 100UF M
⚠ C801	24503055	PLASTIC FILM, AC275V 0.22UF M
⚠ C802	24092569	CERAMIC DISC, AC250V E 2200PF M
C803	24092569	CERAMIC DISC, AC250V E 2200PF M
C804	24092558	CERAMIC DISC CK45B AC250V 3300PF M
C810	24086935	400V 560M35F 400V 560UF M 35F
⚠ C811	24092281	CERAMIC DISC, AC250V E 4700PF
C813	24092281	CERAMIC DISC, AC250V E 4700PF
C816	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C819	24503051	MT PLA CAP 63V 0.68UF J
C820	24503055	PLASTIC FILM, AC275V 0.22UF M
⚠ C821	24503115	PLASTIC FILM CQ92 T 800V 22000PF J
C823	24667221	ELECTROLYTIC, 25V 220UF M 3A
C824	24667221	ELECTROLYTIC, 25V 220UF M 3A
C829	24214103	CERAMIC DISC, 500V B 10000PF K
C830	24669100	ELECTROLYTIC, 50V 10UF M 3A
C831	24073037	ELECTROLYTIC, 16V 47UF M 3A
C834	24669100	ELECTROLYTIC, 50V 10UF M 3A
C835	24073015	ELECTROLYTIC, 10V 47UF M 3A
C840	24667102	ELECTROLYTIC CE04Q 25V 1000UF M 3A
C841	24503053	PLASTIC FILM, 63V 1UF J
C842	24664101	ELECTROLYITC, 6.3V 100UF M 3A
C857	24073060	ELECTROLYTIC, 25V 4700UF M 3A
C858	24073060	ELECTROLYTIC, 25V 4700UF M 3A
C859	24073057	ELECTROLYTIC, 25V 1000UF M 3A
C863	24503045	PLASTIC FILM, 63V 0.22UF J
C864	24092474	CERAMIC DISC, 2KV B 220PF K
C866	24503049	PLASTIC FILM, 63V 0.47UF J
C867	24591682	PLASTIC FILM, 50V 6800PF J
C868	24668470	ELECTROLYTIC, 35V 47UF M 3A
C869	24678229	ELECTROLYTIC, 200V 2.2UF M 3A
⚠ C870	24503122	PLASTIC FILM, 800V 82000PF J
C871	24092484	CERAMIC DISC, 2KV B 1500PF K
C872	24092474	CERAMIC DISC, 2KV B 220PF K
C873	24503045	PLASTIC FILM, 63V 0.22UF J
C875	24212471	CERAMIC DISC, 50V B 470PF K
C876	24503049	PLASTIC FILM, 63V 0.47UF J
C879	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C880	24092338	CERAMIC DISC, 2KV R 270PF K
C881	24092338	CERAMIC DISC, 2KV R 270PF K
C884	24086939	ELECTROLYTIC, 200V 330UF M22B
C890	24073096	ELECTROLYTIC, 50V 3300UF M 3A
C891	24082229	PLASTIC FILM, 250V 0.1MF D
C894	24073043	ELECTROLYTIC CE04P 16V 2200UF M 3A
C895	24073043	ELECTROLYTIC CE04P 16V 2200UF M 3A
C898	24503041	PLASTIC FILM , 63V 0.1UF J
C901	24211102	CERAMIC DISC, 2KV B 1000PF K
C902	24794100	ELECTROLYTIC, 16V 10UF M
C904	24436561	CERAMIC DISC, 50V SL 560PF J
C905	24214102	CERAMIC DISC, 500V B 1000PF K
C911	24211102	CERAMIC DISC, 2KV B 1000PF K
C912	24794100	ELECTROLYTIC, 16V 10UF M
C914	24436821	CERAMIC DISC CC45SL 50V 820PF J
C915	24679330	ELECTROLYTIC, 250V 33UF M 3A
C916	24794101	ELECTROLYTIC, 16V 100UF M
C921	24211102	CERAMIC DISC, 2KV B 1000PF K
C922	24794100	ELECTROLYTIC, 16V 10UF M
C926	24436681	CERAMIC DISC, 50V SL 680PF J
C941	24797478	ELECTROLYTIC, 50V 0.47UF M
C943	24667102	ELECTROLYTIC CE04Q 25V 1000UF M 3A
C944	24206100	ELECTROLYTIC, 50V 10UF M 7L 3A
C961	24666101	ELECTROLYTIC, 16V 100UF M 3A
C962	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C964	24591104	PLASTIC FILM, 50V 0.1UF J
C3260	24092785	CERAMIC CHIP, 10V B 0.47UF K
C3301	24797229	ELECTROLYTIC, 50V 2.2UF M
C4401	24109223	CERAMIC CHIP, 25V B 22000PF K
C4402	24797229	ELECTROLYTIC, 50V 2.2UF M
C4403	24109103	CERAMIC CHIP, 50V B 10000PF K
C4404	24763102	ELECTROLYTIC, 16V 1000UF M
C4405	24109222	CERAMIC CHIP, 50V B 2200PF K
C4451	24763101	ELECTROLYTIC, 16V 100UF M
C5020	24109103	CERAMIC CHIP, 50V B 10000PF K
C5030	24763221	ELECTROLYTIC, 16V 220UF M
C5070	24109103	CERAMIC CHIP, 50V B 10000PF K
C5080	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C5090	24763101	ELECTROLYTIC, 16V 100UF M
C5100	24763101	ELECTROLYTIC, 16V 100UF M
C5200	24109102	CERAMIC CHIP, 50V B 1000PF K
C5210	24109102	CERAMIC CHIP, 50V B 1000PF K
C5220	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C7702	24105101	CERAMIC CHIP, 50V CH 100PF J
C7718	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7719	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7720	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7721	24105331	CERAMIC CHIP, 50V CH 330PF J
C7722	24105101	CERAMIC CHIP, 50V CH 100PF J
C7724	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7725	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7726	24105331	CERAMIC CHIP, 50V CH 330PF J
C7727	24105101	CERAMIC CHIP, 50V CH 100PF J
C7729	24105331	CERAMIC CHIP, 50V CH 330PF J
C7730	24105101	CERAMIC CHIP, 50V CH 100PF J
C7731	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7732	24105331	CERAMIC CHIP, 50V CH 330PF J
C7733	24105101	CERAMIC CHIP, 50V CH 100PF J
C7735	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7736	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7737	24105331	CERAMIC CHIP, 50V CH 330PF J
C7738	24105101	CERAMIC CHIP, 50V CH 100PF J
C7740	24105331	CERAMIC CHIP, 50V CH 330PF J
C7741	24105101	CERAMIC CHIP, 50V CH 100PF J
C7744	24109103	CERAMIC CHIP, 50V B 10000PF K
C7747	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7749	24567104	PLASTIC FILM, 50V 0.1UF J
C7750	24667101	ELECTROLYTIC, 25V 100UF M 3A

Location No.	Parts No.	Description
C7751	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7753	24567104	PLASTIC FILM, 50V 0.1UF J
C7754	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7756	24667470	ELECTROLYTIC, 25V 47UF M 3A
C7757	24567104	PLASTIC FILM, 50V 0.1UF J
C7766	24669100	ELECTROLYTIC, 50V 10UF M 3A
C7767	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7769	24109103	CERAMIC CHIP, 50V B 10000PF K
C7774	24105331	CERAMIC CHIP, 50V CH 330PF J
C7776	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7796	24073034	ELECTROLYTIC CE04P 16V 10UF M 3A
C9602	24794100	ELECTROLYTIC, 16V 10UF M
CA09	24105101	CERAMIC CHIP, 50V CH 100PF J
CA10	24105101	CERAMIC CHIP, 50V CH 100PF J
CA12	24105101	CERAMIC CHIP, 50V CH 100PF J
CA15	24105101	CERAMIC CHIP, 50V CH 100PF J
CA16	24105101	CERAMIC CHIP, 50V CH 100PF J
CA17	24105101	CERAMIC CHIP, 50V CH 100PF J
CA20	24105101	CERAMIC CHIP, 50V CH 100PF J
CA33	24100103	CERAMIC CHIP, 50V F 10000PF Z
CA42	24794101	ELECTROLYTIC, 16V 100UF M
CA43	24109103	CERAMIC CHIP, 50V B 10000PF K
CA45	24109103	CERAMIC CHIP, 50V B 10000PF K
CA58	24794330	ELECTROLYTIC CE04G 16V 33UF M
CA67	24100103	CERAMIC CHIP, 50V F 10000PF Z
CA68	24794100	ELECTROLYTIC, 16V 10UF M
CA69	24100103	CERAMIC CHIP, 50V F 10000PF Z
CA70	24794100	ELECTROLYTIC, 16V 10UF M
CB01	24794470	ELECTORLYTIC, 16V 47UF M
CB04	24092538	CERAMIC CHIP, 10V F 1UF Z
CB05	24109222	CERAMIC CHIP, 50V B 2200PF K
CB06	24105561	CERAMIC CHIP, 50V CH 560PF J
CB07	24109332	CERAMIC CHIP, 50V B 3300PF K
CB90	24100103	CERAMIC CHIP, 50V F 10000PF Z
CC01	24109103	CERAMIC CHIP, 50V B 10000PF K
CC10	24212221	CERAMIC DISC, 50V B 220PF K
CC26	24109103	CERAMIC CHIP, 50V B 10000PF K
CC27	24109103	CERAMIC CHIP, 50V B 10000PF K
CC33	24105101	CERAMIC CHIP, 50V CH 100PF J
CC47	24212332	CERAMIC DISC, 50V B 3300PF K
CC48	24212332	CERAMIC DISC, 50V B 3300PF K
CC60	24109223	CERAMIC CHIP, 25V B 22000PF K
CC61	24109223	CERAMIC CHIP, 25V B 22000PF K
CC62	24109102	CERAMIC CHIP, 50V B 1000PF K
CC63	24109102	CERAMIC CHIP, 50V B 1000PF K
CC64	24109223	CERAMIC CHIP, 25V B 22000PF K
CC65	24109223	CERAMIC CHIP, 25V B 22000PF K
CC66	24109102	CERAMIC CHIP, 50V B 1000PF K
CC67	24109102	CERAMIC CHIP, 50V B 1000PF K
CC68	24109102	CERAMIC CHIP, 50V B 1000PF K
CC69	24109102	CERAMIC CHIP, 50V B 1000PF K
CC70	24109102	CERAMIC CHIP, 50V B 1000PF K
CC71	24109102	CERAMIC CHIP, 50V B 1000PF K
CC72	24109102	CERAMIC CHIP, 50V B 1000PF K
CC73	24109102	CERAMIC CHIP, 50V B 1000PF K
CC74	24109102	CERAMIC CHIP, 50V B 1000PF K
CC75	24109102	CERAMIC CHIP, 50V B 1000PF K
CC76	24109102	CERAMIC CHIP, 50V B 1000PF K
CR01	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CR02	24100103	CERAMIC CHIP, 50V F 10000PF Z
CR09	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR10	24794470	ELECTORLYTIC, 16V 47UF M
CR11	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR12	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR13	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR14	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR18	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR19	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR20	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR99	24100104	CERAMIC CHIP, 25V F 100000PF Z
CS01	24797229	ELECTROLYTIC, 50V 2.2UF M
CS02	24797229	ELECTROLYTIC, 50V 2.2UF M
CS03	24797229	ELECTROLYTIC, 50V 2.2UF M
CS04	24797229	ELECTROLYTIC, 50V 2.2UF M
CS05	24797229	ELECTROLYTIC, 50V 2.2UF M
CS06	24797229	ELECTROLYTIC, 50V 2.2UF M
CS07	24797229	ELECTROLYTIC, 50V 2.2UF M
CS08	24797229	ELECTROLYTIC, 50V 2.2UF M
CS09	24797229	ELECTROLYTIC, 50V 2.2UF M
CS11	24794100	ELECTROLYTIC, 16V 10UF M
CS12	24794100	ELECTROLYTIC, 16V 10UF M
CS13	24794100	ELECTROLYTIC, 16V 10UF M
CS14	24794100	ELECTROLYTIC, 16V 10UF M
CS16	24797229	ELECTROLYTIC, 50V 2.2UF M
CS18	24794100	ELECTROLYTIC, 16V 10UF M
CS19	24794100	ELECTROLYTIC, 16V 10UF M
CS20	24797478	ELECTROLYTIC, 50V 0.47UF M
CT01	24792221	ELECTROLYTIC CE04G 6.3V 220UF M
CT02	24109103	CERAMIC CHIP, 50V B 10000PF K
CT03	24109103	CERAMIC CHIP, 50V B 10000PF K
CT04	24793101	ELECTROLYTIC, 10V 100UF M
CT05	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT06	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT07	24092538	CERAMIC CHIP, 10V F 1UF Z
CT08	24105560	CERAMIC CHIP, 50V CH 56PF J
CT09	24105560	CERAMIC CHIP, 50V CH 56PF J
CT10	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT11	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT12	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT13	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT14	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT17	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT19	24794100	ELECTROLYTIC, 16V 10UF M
CT20	24109103	CERAMIC CHIP, 50V B 10000PF K
CT23	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT99	24793102	ELECTROLYTIC, 10V 1000UF M
CV02	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV03	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV04	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV05	24109103	CERAMIC CHIP, 50V B 10000PF K
CV06	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV08	24763221	ELECTROLYTIC, 16V 220UF M
CV12	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV23	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L
CV24	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV25	24794220	ELECTROLYTIC, 16V 22UF M
CV26	24109473	CERAMIC CHIP, 25V B 47000PFK
CV35	24109103	CERAMIC CHIP, 50V B 10000PF K
CV39	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L
CV40	24109103	CERAMIC CHIP, 50V B 10000PF K
CV41	24794470	ELECTORLYTIC, 16V 47UF M
CV42	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV65	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L
CV66	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L
CW01	24781121	CERAMIC, CHIP, 50V SL 120PF J
CW02	24781121	CERAMIC, CHIP, 50V SL 120PF J
CW03	24781470	CERAMIC CHIP, 50V SL 47PF J
CW04	24085945	CHEMICON 04J 50V 2R2M NP
CW04	24591822	PLASTIC FILM, 50V 8200PF J
CW05	24212103	CERAMIC DISC, 50V B 10000PF K

Location No.	Parts No.	Description
CW05	24781121	CERAMIC, CHIP, 50V SL 120PF J
CW06	24781121	CERAMIC, CHIP, 50V SL 120PF J
CW07	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CW07	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW08	24781121	CERAMIC, CHIP, 50V SL 120PF J
CW09	24781121	CERAMIC, CHIP, 50V SL 120PF J
CW10	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CW11	24781330	CERAMIC CHIP, 50V SL 33PF J
CW12	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW12	24781820	CERAMIC CHIP, 50V SL 82PF J
CW13	24709100	ELECTROLYTIC, 200V 10UF M
CW13	24781330	CERAMIC CHIP, 50V SL 33PF J
CW14	24436101	CERAMIC DISC CC45 SL 50V100PF J
CW14	24781820	CERAMIC CHIP, 50V SL 82PF J
CW15	24214472	CERAMIC DISK CK45 B 500V 4700PF K
CW15	24781330	CERAMIC CHIP, 50V SL 33PF J
CW16	24436101	CERAMIC DISC CC45 SL 50V100PF J
CW16	24781820	CERAMIC CHIP, 50V SL 82PF J
CW17	24214472	CERAMIC DISK CK45 B 500V 4700PF K
CW18	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW19	24435560	CERAMIC DISC, 500V SL 56PF J
CW20	24709100	ELECTROLYTIC, 200V 10UF M
CW21	24794470	ELECTORLYTIC, 16V 47UF M
CW26	24212102	CERAMIC DISC, 50V B 1000PF K
CW27	24085986	ELEC. NONPOLAR, 10V 10UF M 7L NP
CW28	24085986	ELEC. NONPOLAR, 10V 10UF M 7L NP
CW29	24085986	ELEC. NONPOLAR, 10V 10UF M 7L NP
CW30	24202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CW31	24092294	CERAMIC CHIP, 16V F 0.33MF Z
CW32	24781331	CERAMIC CHIP, 50V SL 330PF J
CW33	24092294	CERAMIC CHIP, 16V F 0.33MF Z
CW34	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW35	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW36	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW37	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW38	24202101	ELECTROLYTIC, 10V 100UF M 7L 3A
CW39	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW40	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L
CW41	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW42	24201101	ELECTROLYTIC, 6.3V 100UF M 7L 3A
CW43	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW44	24201101	ELECTROLYTIC, 6.3V 100UF M 7L 3A
CW45	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW46	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CW47	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW48	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW49	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW50	24202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CW51	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW52	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW53	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW54	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW55	24815472	CERAMIC CHIP, 50V B 4700PF K
CW56	24781221	CERAMIC CHIP, 50V SL 220PF J
CW60	24092441	CERAMIC CHIP, 16V F 1UF Z
CW61	24781182	CAPACITOR CERAMIC CHIP 50V SL 1800PF J
CW62	24781182	CAPACITOR CERAMIC CHIP 50V SL 1800PF J
CW68	24092293	CERAMIC CHIP, 25V F 100000PF Z
CW70	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW72	24567103	PLASTIC FILM, 50V 0.01UF J
CW73	24774471	CHIP CERA CAP 50V CH 471J
CW74	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW75	24092293	CERAMIC CHIP, 25V F 100000PF Z

Location No.	Parts No.	Description
CW80	24092441	CERAMIC CHIP, 16V F 1UF Z
CW81	24092441	CERAMIC CHIP, 16V F 1UF Z
CW82	24781330	CERAMIC CHIP, 50V SL 33PF J
CW83	24781330	CERAMIC CHIP, 50V SL 33PF J
CW85	24781330	CERAMIC CHIP, 50V SL 33PF J
CW86	24781330	CERAMIC CHIP, 50V SL 33PF J
CW87	24781330	CERAMIC CHIP, 50V SL 33PF J
CW88	24781330	CERAMIC CHIP, 50V SL 33PF J
CW89	24781330	CERAMIC CHIP, 50V SL 33PF J
CW90	24781330	CERAMIC CHIP, 50V SL 33PF J
CW91	24781330	CERAMIC CHIP, 50V SL 33PF J
CW92	24781330	CERAMIC CHIP, 50V SL 33PF J
CW93	24781330	CERAMIC CHIP, 50V SL 33PF J
CW94	24781101	CERAMIC CHIP, 50V SL 100PF J
CW95	24781101	CERAMIC CHIP, 50V SL 100PF J
CW97	24781101	CERAMIC CHIP, 50V SL 100PF J
CZ01	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ02	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ03	24092743	CERAMIC CHIP, 10V F 470NF Z
CZ04	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ05	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ06	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ07	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ08	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ09	24105220	CERAMIC CHIP, 50V CH 22PF J
CZ10	24105100	CERAMIC CHIP, 50V CH 10PF D
CZ11	24105220	CERAMIC CHIP, 50V CH 22PF J
CZ12	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ13	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ14	24794100	ELECTROLYTIC, 16V 10UF M
CZ15	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ16	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ17	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ19	24105681	CERAMIC CHIP, 50V 680PF J
CZ20	24092730	CERAMIC CHIP, 16V B 0.1UF K
CZ21	24105102	CERAMIC CHIP, 25V CH 1000PF J
CZ22	24794100	ELECTROLYTIC, 16V 10UF M
CZ23	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ24	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ25	24794100	ELECTROLYTIC, 16V 10UF M
CZ26	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ28	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ29	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ30	24794100	ELECTROLYTIC, 16V 10UF M
CZ31	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ32	24105101	CERAMIC CHIP, 50V CH 100PF J
CZ33	24105330	CERAMIC CHIP, 50V CH 33PF J
CZ34	24105101	CERAMIC CHIP, 50V CH 100PF J
CZ35	24105270	CERAMIC CHIP, 50V CH 27PF J
CZ36	24105100	CERAMIC CHIP, 50V CH 10PF D
RESISTORS		
R101	24382333	OXIDE METAL FILM, 1W 33K OHM J
R204	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R205	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R206	24366221	CARBON FILM, 1/6W 220 OHM J
R208	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R213	24872681	CHIP, METAL FILM, 1/16W 680 OHM J
R214	24872681	CHIP, METAL FILM, 1/16W 680 OHM J
R215	24872681	CHIP, METAL FILM, 1/16W 680 OHM J
R216	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R218	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R219	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R220	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R231	24000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
R236	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R241	24367393	CARBON FILM, 1/6W 39K OHM J
R242	24367393	CARBON FILM, 1/6W 39K OHM J
R243	24367393	CARBON FILM, 1/6W 39K OHM J
R245	24366123	CARBON FILM, 1/6W 12K OHM J
R246	24366103	CARBON FILM, 1/6W 10K OHM J
R247	24366102	CARBON FILM, 1/6W 1K OHM J
R260	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R261	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R262	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R263	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R264	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R265	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R266	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R269	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R270	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R271	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R272	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R273	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
R274	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R275	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R276	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R277	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R278	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R279	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R280	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R301	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R302	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R303	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R304	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R305	24322828	OXIDE METAL FILM, 1W 0.82 OHM J
R306	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R307	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R308	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R310	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R311	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R312	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R313	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R314	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R315	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
R316	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R317	24011824	CHIP, METAL FILM, 1/20W 820K OHM J
R318	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
R320	24000249	METAL FILM, 1/4W 47K OHM F
R321	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R322	24000639	METAL FILM, 1/4W 22K OHM F
R323	24000529	METAL FILM, 1/4W 6.8K OHM F
R324	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R325	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R326	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R327	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R328	24000633	METAL FILM, 1/4W 10K OHM F
R329	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R330	24000221	METAL FILM, 1/4W 20K OHM F
R331	24019119	METAL FILM, 1/6W 30K OHM J
R332	24000525	METAL FILM, 1/4W 4.7K OHM F
R333	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R334	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R335	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R336	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R337	24321129	OXIDE METAL FILM, 1/2W 1.2 OHM J
R338	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R339	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R340	24011824	CHIP, METAL FILM, 1/20W 820K OHM J
R341	24011473	CHIP, METAL FILM, 1/20W 47K OHM J

Location No.	Parts No.	Description
R342	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R343	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R344	24382271	OXIDE METAL FILM, 1W 270 OHM J
R346	24382391	OXIDE METAL FILM, 1W 390 OHM J
R347	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R348	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R349	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
R350	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R355	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R360	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R361	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R362	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R363	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R364	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R365	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R370	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R371	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R372	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R373	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R374	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R375	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R376	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R377	24000824	JUMPER CHIP, 2125TYPE
R378	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R380	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R381	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R390	24382561	OXIDE METAL FILM, 1W 560 OHM J
R391	24382561	OXIDE METAL FILM, 1W 560 OHM J
R392	24382561	OXIDE METAL FILM, 1W 560 OHM J
R401	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R402	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R403	24553272	OXIDE METAL FILM, 1W 2.7K OHM J
R404	24366332	CARBON FILM, 1/6W 3.3K OHM J
R405	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R406	24382472	OXIDE METAL FILM, 1W 4.7K OHM J
R407	24381100	OXIDE METAL FILM, 1/2W 10 OHM J
R408	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R409	24555220	OXIDE METAL FILM, 3W 22 OHM J
R410	24555220	OXIDE METAL FILM, 3W 22 OHM J
R411	24383270	OXIDE METAL FILM, 2W 27 OHM J
R412	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R413	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R414	24366100	CARBON FILM, 1/6W 10 OHM J
R415	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R416	24384682	OXIDE METAL FILM, 3W 6.8K OHM J
R417	24019292	FUSIBLE, 1/2W 68 OHM J
R418	24382104	OXIDE METAL FILM, 1W 100K OHM J
R419	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R420	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R421	24366223	CARBON FILM, 1/6W 22K OHM J
R422	24366223	CARBON FILM, 1/6W 22K OHM J
R431	24383102	OXIDE METAL FILM, 2W 1K OHM J
R432	24376274	CARBON FILM, 1/2W 270K OHM J
R433	24376274	CARBON FILM, 1/2W 270K OHM J
R434	24376274	CARBON FILM, 1/2W 270K OHM J
R435	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R441	24383102	OXIDE METAL FILM, 2W 1K OHM J
R443	24310109	OXIDE METAL FILM, 1/2W 1 OHM J
R444	24338398	OXIDE METAL FILM, 1W 0.39 OHM J
R445	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R446	24366103	CARBON FILM, 1/6W 10K OHM J
R447	24382473	OXIDE METAL FILM, 1W 47K OHM J
R448	24366334	CARBON FILM, 1/6W 330K OHM J
R449	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R455	24011103	CHIP, METAL FILM, 1/20W 10K OHM J

Location No.	Parts No.	Description
R460	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R461	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R462	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R463	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R464	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R465	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R466	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R467	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
R468	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R469	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R470	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R470	24323568	OXIDE METAL FILM, 2W 0.56 OHM J
R471	24552271	OXIDE METAL FILM, 1/2W 270 OHM J
R472	24552151	OXIDE METAL FILM, 1/2W 150 OHM J
R473	24327223	METAL FILM, 1/4W 22K OHM F
R474	24327223	METAL FILM, 1/4W 22K OHM F
R475	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R475	24366102	CARBON FILM, 1/6W 1K OHM J
R476	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R477	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R478	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R479	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R480	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R481	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R482	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R488	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
R489	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R490	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R491	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R492	24000370	METAL FILM, 1/4W 3.3K OHM F
R493	24000137	METAL FILM, 1/4W 150 OHM F
R494	24000364	METAL FILM, 1/4W 1.8K OHM F
R495	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R496	24366103	CARBON FILM, 1/6W 10K OHM J
R497	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R498	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R501	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R502	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R504	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R505	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R506	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R507	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
R508	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R511	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R512	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R513	24366101	CARBON FILM, 1/6W 100 OHM J
R514	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R515	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R515	24366103	CARBON FILM, 1/6W 10K OHM J
R516	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R517	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R520	24366681	CARBON FILM, 1/6W 680 OHM J
R522	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R523	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R524	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R525	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R526	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R527	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R528	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R529	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R530	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R543	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R548	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R553	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R601	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R602	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R603	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R604	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R605	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R606	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R607	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R608	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R609	24366229	CARBON FILM, 1/6W 2.2 OHM J
R610	24366229	CARBON FILM, 1/6W 2.2 OHM J
R611	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R613	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R614	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R615	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R616	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R617	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R618	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R619	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R620	24552122	OXIDE METAL FILM, 1/2W 1.2K OHM J
R621	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R622	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R623	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R624	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R625	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R626	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R627	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R628	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R629	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R630	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R631	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R632	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R633	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R634	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R635	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R636	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R637	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R641	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R642	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R643	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R644	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R645	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R646	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R647	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R688	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R690	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R701	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R702	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R703	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R704	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R705	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R706	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R707	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R708	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R709	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R710	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R711	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R712	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R713	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R714	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R716	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
R718	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R720	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
R721	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
R722	24872561	CHIP, METAL FILM, 1/16W 560 OHM J
R723	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
R724	24872102	CHIP, METAL FILM, 1/16W 1K OHM J

Location No.	Parts No.	Description
R725	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
R726	24872331	CHIP, METAL FILM, 1/16W 330 OHM J
R727	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
R728	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R729	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R730	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R731	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R732	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R733	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R734	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R735	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R736	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R737	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R738	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R739	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R740	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R741	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R742	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R743	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R744	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R745	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R746	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R747	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R748	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R749	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R750	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R751	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R752	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R753	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R754	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R755	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R756	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R757	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R758	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R759	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R760	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R761	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R762	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R763	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R764	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R778	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R779	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R780	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R781	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R782	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R783	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R786	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R787	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R790	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R791	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R792	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R793	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R794	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R795	24000824	JUMPER CHIP, 2125TYPE
R796	24000824	JUMPER CHIP, 2125TYPE
R797	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R798	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R799	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
⚠ R801	24005015	METAL GLAZE, 1W 8.2M OHM J
R810	24510152	CERAMIC COVERED, 5W 1.5K OHM J
R814	24366102	CARBON FILM, 1/6W 1K OHM J
R815	24366102	CARBON FILM, 1/6W 1K OHM J
R816	24366102	CARBON FILM, 1/6W 1K OHM J
R817	24366102	CARBON FILM, 1/6W 1K OHM J
R818	24366471	CARBON FILM, 1/6W 470 OHM J
R819	24009954	METAL FILN, 1/2W 2.2M OHM J
R820	24327153	METAL FILM, 1/4W 15K OHM J
R821	24327123	METAL FILM, 1/4W 12K OHM F
R822	24327123	METAL FILM, 1/4W 12K OHM F
R823	24327123	METAL FILM, 1/4W 12K OHM F
R824	24366102	CARBON FILM, 1/6W 1K OHM J
R830	24366333	CARBON FILM, 1/6W 33K OHM J
R840	24366473	CARBON FILM, 1/6W 47K OHM J
R842	24366222	CARBON FILM, 1/6W 2.2K OHM J
R843	24366103	CARBON FILM, 1/6W 10K OHM J
R861	24555333	OXIDE RES B 3W 333J
R862	24321689	METAL FILM, 1/2W 6.8 OHM J
R864	24552102	OXIDE METAL FILM, 1/2W 1K OHM J
R865	24545109	FUSIBLE, 1/4W 1 OHM J
R866	24552470	OXIDE METAL FILM, 1/2W 47 OHM J
R867	24367563	CARBON FILM, 1/6W 56K OHM G
R868	24552560	OXIDE METAL FILM, 1/2W 56 OHM J
R870	24552121	OXIDE METAL FILM, 1/2W 120 OHM J
R871	24553680	OXIDE METAL FILM, 1W 68 OHM J
R872	24377224	CARBON FILM, 1W 220K OHM J
R883	24381683	OXIDE METAL FILM, 1/2W 68K OHM J
R884	24366102	CARBON FILM, 1/6W 1K OHM J
R885	24545109	FUSIBLE, 1/4W 1 OHM J
R891	24366152	CARBON FILM, 1/6W 1.5K OHM J
R901	24366471	CARBON FILM, 1/6W 470 OHM J
R903	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R905	24366390	CARBON FILM, 1/6W 39 OHM J
R906	24366621	CARBON FILM, 1/6W 620 OHM J
R908	24366560	CARBON FILM, 1/6W 56 OHM J
R909	24366121	CARBON FILM, 1/6W 120 OHM J
R911	24366471	CARBON FILM, 1/6W 470 OHM J
R913	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R915	24366330	CARBON FILM, 1/6W 33 OHM J
R916	24366621	CARBON FILM, 1/6W 620 OHM J
R918	24366430	CARBON FILM, 1/6W 43 OHM J
R921	24366471	CARBON FILM, 1/6W 470 OHM J
R923	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R925	24366121	CARBON FILM, 1/6W 120 OHM J
R926	24366621	CARBON FILM, 1/6W 620 OHM J
R928	24366680	CARBON FILM, 1/6W 68 OHM J
R931	24555153	OXIDE METAL FILM, 3W 15K OHM J
R932	24555153	OXIDE METAL FILM, 3W 15K OHM J
R934	24000887	FUSIBLE, 1W 2.2 OHM J
R935	24366150	CARBON FILM, 1/6W 15 OHM J
R936	24366330	CARBON FILM, 1/6W 33 OHM J
R941	24555153	OXIDE METAL FILM, 3W 15K OHM J
R942	24555153	OXIDE METAL FILM, 3W 15K OHM J
R943	24366103	CARBON FILM, 1/6W 10K OHM J
R944	24366150	CARBON FILM, 1/6W 15 OHM J
R945	24366680	CARBON FILM, 1/6W 68 OHM J
R946	24366330	CARBON FILM, 1/6W 33 OHM J
R949	24366101	CARBON FILM, 1/6W 100 OHM J
R951	24555153	OXIDE METAL FILM, 3W 15K OHM J
R952	24555153	OXIDE METAL FILM, 3W 15K OHM J
R953	24366390	CARBON FILM, 1/6W 39 OHM J
R956	24366102	CARBON FILM, 1/6W 1K OHM J
R957	24366330	CARBON FILM, 1/6W 33 OHM J
R961	24366102	CARBON FILM, 1/6W 1K OHM J
R962	24366361	CARBON FILM, 1/6W 360 OHM J
R964	24366332	CARBON FILM, 1/6W 3.3K OHM J
R965	24366471	CARBON FILM, 1/6W 470 OHM J
R966	24366821	CARBON FILM, 1/6W 820 OHM J
R967	24366102	CARBON FILM, 1/6W 1K OHM J
R968	24366680	CARBON FILM, 1/6W 68 OHM J
R969	24366103	CARBON FILM, 1/6W 10K OHM J

Location No.	Parts No.	Description
R970	24366222	CARBON FILM, 1/6W 2.2K OHM J
R971	24367152	CARBON FILM, 1/6W 1.5K OHM G
R972	24367471	CARBON FILM, 1/6W 470 OHM G
R973	24367681	CARBON FILM, 1/6W 680 OHM G
R974	24367681	CARBON FILM, 1/6W 680 OHM G
R975	24366242	CARBON FILM, 1/6W 2.4K OHM J
R976	24367562	CARBON FILM, 1/6W 5.6K OHM G
R977	24367472	CARBON FILM, 1/6W 4.7K OHM G
R978	24367681	CARBON FILM, 1/6W 680 OHM G
R4401	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
R4403	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R4404	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R4405	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
R4406	24011274	CHIP, METAL FILM, 1/20W 270K OHM J
R4407	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4408	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4409	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4422	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4451	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R4452	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4453	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R4454	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4471	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4472	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
R5020	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R5030	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7707	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7708	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7709	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7710	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7711	24547189	FUSIBLE, 1W 1.8 OHM J
R7712	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7713	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7714	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7715	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7716	24547189	FUSIBLE, 1W 1.8 OHM J
R7717	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7718	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7719	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7720	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7721	24547189	FUSIBLE, 1W 1.8 OHM J
R7722	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7723	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7724	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7725	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7726	24547189	FUSIBLE, 1W 1.8 OHM J
R7727	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7728	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7729	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7730	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7731	24547189	FUSIBLE, 1W 1.8 OHM J
R7732	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7733	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7734	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7735	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7736	24547189	FUSIBLE, 1W 1.8 OHM J
R7766	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R7767	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R7773	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R7777	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7779	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7780	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7781	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R7795	24000445	CHIP JUMPER, 1608TYPE
R7796	24000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
R7797	24000445	CHIP JUMPER, 1608TYPE
R7798	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7799	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7845	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7846	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7847	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7848	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7849	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7850	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R7851	24011153	CHIP, METAL FILM, 1/20W 15K OHM J
R7852	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7853	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7854	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7863	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7864	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7866	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7867	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7890	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7891	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7895	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R9601	24366471	CARBON FILM, 1/6W 470 OHM J
R9602	24366362	CARBON FILM, 1/6W 3.6K OHM J
R9603	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9604	24366272	CARBON FILM, 1/6W 2.7K OHM J
R9605	24366682	CARBON FILM, 1/6W 6.8K OHM J
R9606	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9613	24366680	CARBON FILM, 1/6W 68 OHM J
R9614	24366390	CARBON FILM, 1/6W 39 OHM J
R9615	24366101	CARBON FILM, 1/6W 100 OHM J
R9616	24366102	CARBON FILM, 1/6W 1K OHM J
RA01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA02	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA07	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA08	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA09	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA10	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA11	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA12	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA16	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA17	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA19	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA20	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA21	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA22	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA23	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA24	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA25	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA27	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA29	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA30	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA33	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA38	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA39	24000445	CHIP JUMPER, 1608TYPE
RA43	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA50	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA51	24011102	CHIP, METAL FILM, 1/20W 1K OHM J

Location No.	Parts No.	Description
RA52	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA60	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA62	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA65	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA66	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA67	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA68	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA70	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA71	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA71	24366683	CARBON FILM, 1/6W 68K OHM J
RA72	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA72	24366223	CARBON FILM, 1/6W 22K OHM J
RA73	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA73	24366103	CARBON FILM, 1/6W 10K OHM J
RA75	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA76	24366103	CARBON FILM, 1/6W 10K OHM J
RA77	24366223	CARBON FILM, 1/6W 22K OHM J
RA78	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA78	24366683	CARBON FILM, 1/6W 68K OHM J
RA89	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RA601	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA602	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RA609	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB01	24366271	CARBON FILM, 1/6W 270 OHM J
RB02	24366471	CARBON FILM, 1/6W 470 OHM J
RB04	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB04	24366223	CARBON FILM, 1/6W 22K OHM J
RB05	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RB05	24366223	CARBON FILM, 1/6W 22K OHM J
RB06	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB07	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB07	24366271	CARBON FILM, 1/6W 270 OHM J
RB08	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB08	24366271	CARBON FILM, 1/6W 270 OHM J
RB09	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB09	24366470	CARBON FILM, 1/6W 47 OHM J
RB10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB10	24366101	CARBON FILM, 1/6W 100 OHM J
RB11	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB11	24366103	CARBON FILM, 1/6W 10K OHM J
RB12	24366471	CARBON FILM, 1/6W 470 OHM J
RB39	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB43	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB45	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB60	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB81	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RB82	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB83	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB90	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB91	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB92	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB93	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB94	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB95	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB96	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB97	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB98	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB604	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RC01	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC02	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC03	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC04	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC05	24011681	CHIP, METAL FILM, 1/20W 680 OHM J

Location No.	Parts No.	Description
RC06	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC07	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC08	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC60	24366681	CARBON FILM, 1/6W 680 OHM J
RC61	24366681	CARBON FILM, 1/6W 680 OHM J
RR01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR02	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RR03	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RR05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR06	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RR07	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR09	24000445	CHIP JUMPER, 1608TYPE
RR10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR11	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RR12	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR13	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR15	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RR16	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RR17	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RR18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR22	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR23	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR35	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR36	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR37	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR40	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR48	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR61	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR63	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR64	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR65	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR68	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR69	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR70	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR74	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR75	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR85	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR86	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR87	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR88	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS01	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS02	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS03	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS04	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS05	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS06	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS07	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS09	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS11	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS12	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS13	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS14	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS15	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS16	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS17	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS18	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS19	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS20	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS21	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS23	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS24	24011223	CHIP, METAL FILM, 1/20W 22K OHM J

Location No.	Parts No.	Description
RS25	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS26	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS27	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS28	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS29	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS30	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS31	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS32	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS33	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS34	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS49	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS50	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS51	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS52	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS53	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS54	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS55	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS56	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RT01	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT02	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT05	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RT06	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT07	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT08	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT09	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT10	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT11	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT12	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT14	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT15	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT16	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT18	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RT19	24000445	CHIP JUMPER, 1608TYPE
RT20	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT21	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT23	24000445	CHIP JUMPER, 1608TYPE
RT24	24000594	CHIP 1/16W 123F
RT26	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RT27	24000594	CHIP 1/16W 123F
RT28	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT29	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT30	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT31	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RT32	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RT33	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RT34	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT38	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT39	24011561	CHIP, METAL FILM, 1/20W 560 OHM J
RT40	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT42	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RT43	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV07	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV08	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV23	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV24	24011181	CHIP, METAL FILM, 1/20W 180 OHM J

Location No.	Parts No.	Description
RV25	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV27	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV28	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV29	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV30	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV32	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV33	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV34	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV37	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV38	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV40	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RV41	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV42	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV43	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RV44	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV45	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV46	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV61	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV62	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV64	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV65	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV66	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV67	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV68	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV81	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV85	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV86	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV87	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV88	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV89	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV94	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV95	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV96	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RW02	24366271	CARBON FILM, 1/6W 270 OHM J
RW02	24872563	CHIP, METAL FILM, 1/16W 56K OHM J
RW03	24872393	CHIP, METAL FILM, 1/16W 39K OHM J
RW04	24872560	CHIP, METAL FILM, 1/16W 56 OHM J
RW05	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
RW06	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RW07	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
RW08	24872821	CHIP, METAL FILM, 1/16W 820 OHM J
RW09	24366563	CARBON FILM, 1/6W 56K OHM J
RW09	24872560	CHIP, METAL FILM, 1/16W 56 OHM J
RW10	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
RW11	24872561	CHIP, METAL FILM, 1/16W 560 OHM J
RW12	24872272	CHIP, METAL FILM, 1/16W 2.7K OHM J
RW13	24366393	CARBON FILM, 1/6W 39K OHM J
RW13	24872821	CHIP, METAL FILM, 1/16W 820 OHM J
RW14	24552121	OXIDE METAL FILM, 1/2W 120 OHM J
RW14	24872560	CHIP, METAL FILM, 1/16W 56 OHM J
RW15	24366473	CARBON FILM, 1/6W 47K OHM J
RW15	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
RW16	24366273	CARBON FILM, 1/6W 27K OHM J
RW16	24872561	CHIP, METAL FILM, 1/16W 560 OHM J
RW17	24366333	CARBON FILM, 1/6W 33K OHM J
RW17	24872272	CHIP, METAL FILM, 1/16W 2.7K OHM J
RW18	24366101	CARBON FILM, 1/6W 100 OHM J
RW18	24872821	CHIP, METAL FILM, 1/16W 820 OHM J
RW19	24366100	CARBON FILM, 1/6W 10 OHM J
RW20	24366392	CARBON FILM, 1/6W 3.9K OHM J
RW20	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW21	24872102	CHIP, METAL FILM, 1/16W 1K OHM J

Location No.	Parts No.	Description
RW22	24366102	CARBON FILM, 1/6W 1K OHM J
RW22	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW23	24366101	CARBON FILM, 1/6W 100 OHM J
RW23	24872821	CHIP, METAL FILM, 1/16W 820 OHM J
RW24	24366331	CARBON FILM, 1/6W 330 OHM J
RW24	24872821	CHIP, METAL FILM, 1/16W 820 OHM J
RW25	24366182	CARBON FILM, 1/6W 1.8K OHM J
RW25	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW26	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW27	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
RW28	24872271	CHIP, METAL FILM, 1/16W 270 OHM J
RW29	24872392	CHIP, METAL FILM, 1/16W 3.9K OHM J
RW30	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
RW30	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
RW31	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
RW31	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW32	24366820	CARBON FILM, 1/6W 82 OHM J
RW32	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW33	24366683	CARBON FILM, 1/6W 68K OHM J
RW33	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
RW34	24366820	CARBON FILM, 1/6W 82 OHM J
RW34	24872271	CHIP, METAL FILM, 1/16W 270 OHM J
RW35	24366683	CARBON FILM, 1/6W 68K OHM J
RW35	24872392	CHIP, METAL FILM, 1/16W 3.9K OHM J
RW36	24366330	CARBON FILM, 1/6W 33 OHM J
RW36	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
RW37	24366152	CARBON FILM, 1/6W 1.5K OHM J
RW37	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW38	24366102	CARBON FILM, 1/6W 1K OHM J
RW39	24366152	CARBON FILM, 1/6W 1.5K OHM J
RW40	24366330	CARBON FILM, 1/6W 33 OHM J
RW41	24366279	CARBON FILM, 1/6W 2.7 OHM J
RW41	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW42	24366279	CARBON FILM, 1/6W 2.7 OHM J
RW42	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW43	24554221	OXIDE METAL FILM, 2W 220 OHM J
RW43	24872182	CHIP, METAL FILM, 1/16W 1.8K OHM J
RW44	24366122	CARBON FILM, 1/6W 1.2K OHM J
RW44	24872181	CHIP, METAL FILM, 1/16W 180 OHM J
RW45	24366122	CARBON FILM, 1/6W 1.2K OHM J
RW46	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW47	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
RW60	24000824	JUMPER CHIP, 2125TYPE
RW61	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
RW62	24872622	CHIP, METAL FILM, 1/16W 6.2K OHM J
RW63	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW64	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW65	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW66	24872681	CHIP, METAL FILM, 1/16W 680 OHM J
RW67	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
RW68	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
RW69	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
RW70	24872333	CHIP, METAL FILM, 1/16W 33K OHM J
RW71	24872182	CHIP, METAL FILM, 1/16W 1.8K OHM J
RW72	24872182	CHIP, METAL FILM, 1/16W 1.8K OHM J
RW73	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
RW74	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
RW76	24872182	CHIP, METAL FILM, 1/16W 1.8K OHM J
RW77	24000824	JUMPER CHIP, 2125TYPE
RW78	24000824	JUMPER CHIP, 2125TYPE
RW79	24000824	JUMPER CHIP, 2125TYPE
RW80	24872331	CHIP, METAL FILM, 1/16W 330 OHM J
RW81	24872331	CHIP, METAL FILM, 1/16W 330 OHM J
RW82	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
RW83	24872103	CHIP, METAL FILM, 1/16W 10K OHM J

Location No.	Parts No.	Description
RW84	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
RW85	24000824	JUMPER CHIP, 2125TYPE
RW89	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
RW90	24000824	JUMPER CHIP, 2125TYPE
RW91	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
RW92	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
RW93	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW94	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW95	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
RW96	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
RW100	24872563	CHIP, METAL FILM, 1/16W 56K OHM J
RW101	24872393	CHIP, METAL FILM, 1/16W 39K OHM J
RW102	24872563	CHIP, METAL FILM, 1/16W 56K OHM J
RW103	24872393	CHIP, METAL FILM, 1/16W 39K OHM J
RW104	24872682	CHIP, METAL FILM, 1/16W 6.8K OHM J
RW105	24872392	CHIP, METAL FILM, 1/16W 3.9K OHM J
RW107	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
RW108	24872333	CHIP, METAL FILM, 1/16W 33K OHM J
RW109	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
RW110	24872333	CHIP, METAL FILM, 1/16W 33K OHM J
RW114	24872563	CHIP, METAL FILM, 1/16W 56K OHM J
RW116	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
RZ01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ02	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ03	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RZ04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ05	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RZ06	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RZ08	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RZ13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ14	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ15	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ17	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RZ18	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RZ29	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RZ30	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

COILS & TRANSFORMERS

Location No.	Parts No.	Description
L101	23221803	COIL, CHOKE, TLN3040D
L201	23289840	COIL, PEAKING, TRF4100AT
L302	23248073	COIL, CHOKE, TLN3299D
L303	23248073	COIL, CHOKE, TLN3299D
L304	23103859	COIL, CHOKE, TEM2011
L310	23237975	COIL, PEAKING, TRF4101AC
L311	23237975	COIL, PEAKING, TRF4101AC
L401	23289560	COIL, PEAKING, TRF4560AF
L402	23248244	COIL, CHOKE, TLN3497AH
L404	23248242	COIL, CHOKE, TLN3495AH
L405	23221076	COIL, HORIZ/RF CHOKE, TLN1015R
L406	23248243	COIL, CHOKE, TLN3496AH
L407	23103775	COIL, FERRITE CHOKE, TEM2014
L408	23103775	COIL, FERRITE CHOKE, TEM2014
L409	23237975	COIL, PEAKING, TRF4101AC
L441	23233052	COIL, HORIZ. LINEARITY TLN2203AT
L462	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L463	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L464	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L472	23102441	MAGNET, CONVERGENCE, MAG1094
L473	23102441	MAGNET, CONVERGENCE, MAG1094
L474	23102441	MAGNET, CONVERGENCE, MAG1094
L501	23289470	COIL, PEAKING, TRF4470AF
L503	23289844	COIL, PEAKING, TRF4470AT
L504	23238714	COIL, PEAKING, TRF4100AJ
L505	23289840	COIL, PEAKING, TRF4100AT
L700	23103880	COIL, CHOKE, TEM2011Y

Location No.	Parts No.	Description
L701	23103866	FILTER, TEM2105T
L702	23103866	FILTER, TEM2105T
L711	23238562	COIL, PEAKING, TRF4109AJ
L712	23238562	COIL, PEAKING, TRF4109AJ
L713	23238562	COIL, PEAKING, TRF4109AJ
L714	23238562	COIL, PEAKING, TRF4109AJ
L720	23289102	COIL. PEAKING, TRF4102AF
L721	23237805	COIL, PEAKING, COLTRF4222AC
L722	23289102	COIL. PEAKING, TRF4102AF
L723	23237805	COIL, PEAKING, COLTRF4222AC
L724	23289102	COIL. PEAKING, TRF4102AF
L725	23237805	COIL, PEAKING, COLTRF4222AC
L726	23289102	COIL. PEAKING, TRF4102AF
L727	23237805	COIL, PEAKING, COLTRF4222AC
L728	23289102	COIL. PEAKING, TRF4102AF
L729	23237805	COIL, PEAKING, COLTRF4222AC
L730	23289102	COIL. PEAKING, TRF4102AF
L731	23237805	COIL, PEAKING, COLTRF4222AC
L737	23289560	COIL, PEAKING, TRF4560AF
L738	23289560	COIL, PEAKING, TRF4560AF
L739	23289560	COIL, PEAKING, TRF4560AF
L740	23289560	COIL, PEAKING, TRF4560AF
L753	23103866	FILTER, TEM2105T
L754	23103866	FILTER, TEM2105T
L803	23103880	COIL, CHOKE, TEM2011Y
L804	23103940	COIL, CHOKE, TEM2001
L823	23248073	COIL, CHOKE, TLN3299D
L824	23248073	COIL, CHOKE, TLN3299D
L839	23289842	COIL, PEAKING, TRF4220AT
L853	23248073	COIL, CHOKE, TLN3299D
L853	23248195	COIL, CHOKE, TLN3441AT
L854	23248195	COIL, CHOKE, TLN3441AT
L856	23103880	COIL, CHOKE, TEM2011Y
L857	23103880	COIL, CHOKE, TEM2011Y
L858	23103880	COIL, CHOKE, TEM2011Y
L859	23103880	COIL, CHOKE, TEM2011Y
L860	23280018	COIL, PEAKING, TRF4220AZ
L861	23103880	COIL, CHOKE, TEM2011Y
L862	23248073	COIL, CHOKE, TLN3299D
L863	23103880	COIL, CHOKE, TEM2011Y
L864	23103880	COIL, CHOKE, TEM2011Y
L865	23103880	COIL, CHOKE, TEM2011Y
L866	23248073	COIL, CHOKE, TLN3299D
L867	23248073	COIL, CHOKE, TLN3299D
L868	23103880	COIL, CHOKE, TEM2011Y
L869	23103880	COIL, CHOKE, TEM2011Y
L871	23248073	COIL, CHOKE, TLN3299D
L911	23237987	COIL, PEAKING, TRF4100AC
L961	23289100	COIL, PEAKING, TRF4100AF
L962	23237991	COIL, PEAKING, TRF4479AC
L963	23237975	COIL, PEAKING, TRF4101AC
L4471	23289840	COIL, PEAKING, TRF4100AT
L7701	23103880	COIL, CHOKE, TEM2011Y
L7702	23103880	COIL, CHOKE, TEM2011Y
L7703	23103880	COIL, CHOKE, TEM2011Y
L7704	23103880	COIL, CHOKE, TEM2011Y
L7705	23103880	COIL, CHOKE, TEM2011Y
L7706	23103880	COIL, CHOKE, TEM2011Y
LA01	23289840	COIL, PEAKING, TRF4100AT
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LC05	23103828	INDUCTOR, BEAD, TEM2121M
LC06	23103828	INDUCTOR, BEAD, TEM2121M
LC07	23238562	COIL, PEAKING, TRF4109AJ
LC08	23238562	COIL, PEAKING, TRF4109AJ
LC09	23103828	INDUCTOR, BEAD, TEM2121M
LC10	23103828	INDUCTOR, BEAD, TEM2121M
LC11	23103828	INDUCTOR, BEAD, TEM2121M
LC12	23238562	COIL, PEAKING, TRF4109AJ
LC12	24000445	CHIP JUMPER, 1608TYPE
LC43	23103828	INDUCTOR, BEAD, TEM2121M
LC45	23238562	COIL, PEAKING, TRF4109AJ
LG102	23103828	INDUCTOR, BEAD, TEM2121M
LR01	23289109	COIL, PEAKING, TRF41R0AF
LR02	23289109	COIL, PEAKING, TRF41R0AF
LR22	23103845	COIL, COMMONMODE, TEM2030AY
LR23	23103845	COIL, COMMONMODE, TEM2030AY
LT01	23103828	INDUCTOR, BEAD, TEM2121M
LT02	23103828	INDUCTOR, BEAD, TEM2121M
LT03	23103828	INDUCTOR, BEAD, TEM2121M
LT04	23103828	INDUCTOR, BEAD, TEM2121M
LT05	23103828	INDUCTOR, BEAD, TEM2121M
LT07	23103828	INDUCTOR, BEAD, TEM2121M
LT08	23103828	INDUCTOR, BEAD, TEM2121M
LT09	23103828	INDUCTOR, BEAD, TEM2121M
LT11	23103828	INDUCTOR, BEAD, TEM2121M
LT12	23103828	INDUCTOR, BEAD, TEM2121M
LV09	23289840	COIL, PEAKING, TRF4100AT
LV42	23289840	COIL, PEAKING, TRF4100AT
LV43	23289840	COIL, PEAKING, TRF4100AT
LW01	23103806	INDUCTOR, BEAD, TEM2114T
LW02	23103806	INDUCTOR, BEAD, TEM2114T
LW02	23261974	COIL, FERRITE BEAD, HC5-035
LW03	23103806	INDUCTOR, BEAD, TEM2114T
LW04	23103859	COIL, CHOKE, TEM2011
LW04	24000824	JUMPER CHIP, 2125TYPE
LW05	23103822	INDUCTOR, BEAD, TEM2117T
LW05	23103859	COIL, CHOKE, TEM2011
LW06	23103822	INDUCTOR, BEAD, TEM2117T
LW07	23103822	INDUCTOR, BEAD, TEM2117T
LW08	23289100	COIL, PEAKING, TRF4100AF
LW09	23103822	INDUCTOR, BEAD, TEM2117T
LW10	23103806	INDUCTOR, BEAD, TEM2114T
LW12	23238718	COIL, PEAKING, TRF4479AJ
LW13	23238702	COIL, PEAKING, TRF4101AJ
LW14	23238702	COIL, PEAKING, TRF4101AJ
LW15	23238718	COIL, PEAKING, TRF4479AJ
LW16	23238718	COIL, PEAKING, TRF4479AJ
LW17	23238718	COIL, PEAKING, TRF4479AJ
LW41	23103806	INDUCTOR, BEAD, TEM2114T
LW42	23103806	INDUCTOR, BEAD, TEM2114T
LW80	23238562	COIL, PEAKING, TRF4109AJ
LW81	23238562	COIL, PEAKING, TRF4109AJ
LZ01	23238714	COIL, PEAKING, TRF4100AJ
LZ02	23238710	COIL, PEAKING, TRF4220AJ
LZ03	23238714	COIL, PEAKING, TRF4100AJ
LZ04	23238714	COIL, PEAKING, TRF4100AJ
LZ05	23238714	COIL, PEAKING, TRF4100AJ
LZ06	23221099	COIL, COMON MODE FILTER TEM2027AD
LZ07	23103827	INDUCTOR, BEAD, TEM2120M
LZ09	23103827	INDUCTOR, BEAD, TEM2120M
LZ10	23103827	INDUCTOR, BEAD, TEM2120M
T400	23224364	TRANSFORMER, FOCUS, TLN2168AH
T401	23224367	TRANSFORMER, HORIZ DRIVER, TLN1098AH
⚠ T461	23236688	TRANSFORMER, FLYBACK, TFB3091AD
T461A	23192961	ANODE CAP ASSY, TCC5605AU
T801	23211731	COIL, LINE FILTER, TRF3164AC

Location No.	Parts No.	Description
T802	23217479	TRANSFORMER, CHOKE, TPW2029AZ
T803	23217432	TRANSFORMER, POWER, TPW1562AZ
⚠ T862	23217463	TRANSFORMER, CONVERTER, TPW3447AS

SEMICONDUCTORS

Location No.	Parts No.	Description
Q201	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q202	23114425	TRANSISTOR, 2SA1015-Y(TE
Q203	23114425	TRANSISTOR, 2SA1015-Y(TE
Q204	23114425	TRANSISTOR, 2SA1015-Y(TE
Q209	23205112	TRANSISTOR, 2SA1980UF-Y(
Q210	23205112	TRANSISTOR, 2SA1980UF-Y(
Q211	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q212	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q241	23114755	TRANSISTOR, 2SC2482FA-1
Q261	23205112	TRANSISTOR, 2SA1980UF-Y(
Q262	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q263	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q274	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q301	23319787	IC, LA7833S
Q301B	70391355	SCREW, 3X8MM
Q302	23905266	IC, DEF.PROCESSOR IC DIP 16 TA8859CP
Q304	70119059	IC, OP AMP, TA75902P(J)
Q305	23205112	TRANSISTOR, 2SA1980UF-Y(
Q306	70119059	IC, OP AMP, TA75902P(J)
Q307	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q370	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q371	23205112	TRANSISTOR, 2SA1980UF-Y(
Q372	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q381	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q400	23205079	TRANSISTOR, 2SC4686A
Q402	23114755	TRANSISTOR, 2SC2482FA-1
Q404	23314955	TRANSITOR, 2SD2553(FA)
Q404D	72471082	SCREW, 3X10MM
Q405	23114437	TRANSISTOR, 2SC752GTM-Y
Q406	23114437	TRANSISTOR, 2SC752GTM-Y
Q407	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q408	23205112	TRANSISTOR, 2SA1980UF-Y(
Q409	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q420	23114756	TRANSISTOR, 2SC2482
Q425	23205031	TRANSISTOR, FET, 2SK2920
Q426	23119747	IC, OPE AMP TA75358P
Q427	70128158	IC, BA10393
Q482	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q492	23314359	TRANSISTOR, VCEO=-250V HFE TO92L2SA1321(FA, C)
Q501	23000624	IC, TB1274F(J)
Q504	23205112	TRANSISTOR, 2SA1980UF-Y(
Q505	23205112	TRANSISTOR, 2SA1980UF-Y(
Q506	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q520	23205014	TRANSISTOR, 2SC4667-O
Q521	23114501	TRANSISTOR, RN1402
Q522	23205112	TRANSISTOR, 2SA1980UF-Y(
Q523	23205112	TRANSISTOR, 2SA1980UF-Y(
Q524	23205014	TRANSISTOR, 2SC4667-O
Q610	23000269	IC, TV SOUND OUT CPP 12PIN TA8216H
Q610B	70391355	SCREW, 3X8MM
Q611	70114396	TRANSISTOR, 2SC3326B
Q612	70114396	TRANSISTOR, 2SC3326B
Q614	23114499	TRANSISTOR, RN1404(TE85L
Q615	23205112	TRANSISTOR, 2SA1980UF-Y(
Q616	23205112	TRANSISTOR, 2SA1980UF-Y(
Q617	23119690	IC, OP AMP, TA75458P
Q618	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q619	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q620	23114493	TRANSISTOR, CHIP R1=R2=47K SMT RN2404
Q621	70114396	TRANSISTOR, 2SC3326B
Q624	70114396	TRANSISTOR, 2SC3326B
Q625	23114493	TRANSISTOR, CHIP R1=R2=47K SMT RN2404
Q626	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q701	23000380	IC, TC190C06A301
Q703	23905014	IC, LC78816M
Q704	23905014	IC, LC78816M
Q705	23905014	IC, LC78816M
Q707	23905013	IC, TLC2932IPW
Q709	23906908	IC, MC33078D
Q711	23906924	IC, CAT24WC16P
Q712	23906924	IC, CAT24WC16P
Q713	23906924	IC, CAT24WC16P
Q714	23318977	IC, MC14052BF
Q715	23906908	IC, MC33078D
Q717	23906908	IC, MC33078D
Q719	23906908	IC, MC33078D
Q750	23000928	IC, SLA4501M
Q750B	23035310	SCREW, BTB3X10SZN
Q751	23000928	IC, SLA4501M
Q751B	23035310	SCREW, BTB3X10SZN
Q753	23000928	IC, SLA4501M
Q753B	23035310	SCREW, BTB3X10SZN
Q754	23904521	IC, AN7805
Q755	23904525	IC, AN7809
Q756	23319267	IC, AN79M12F
Q756B	23035310	SCREW, BTB3X10SZN
Q761	70119306	IC, DUAL COMPARATOR 8PIN DIP TA75393P
Q762	23000044	IC, CMOS BILATERAL SWITCH TC4066BP(N)
Q764	23319372	IC, TC74HC14AP
Q767	23000044	IC, CMOS BILATERAL SWITCH TC4066BP(N)
Q798	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q801	23906540	IC, HYBRID VDS=400V STR-Z4267
Q810	23904268	IC, PQ05RR1
Q810B	70391355	SCREW, 3X8MM
Q819	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q830	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q830	23905977	IC, PQ09RD11
Q830B	70391355	SCREW, 3X8MM
Q832	23905976	IC, PQ05RD11
Q832B	70391355	SCREW, 3X8MM
Q843	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
⚠ Q862	23904427	IC, PHOTO COUPLER, TLP621(GR-LF2
Q863	23319305	IC, SE140N
Q902	23114433	TRANSISTOR, 2SC1815-Y
Q913	23114433	TRANSISTOR, 2SC1815-Y
Q914	23114429	TRANSISTOR, 2SC2120-Y(TE
Q922	23114433	TRANSISTOR, 2SC1815-Y
Q961	23114433	TRANSISTOR, 2SC1815-Y
Q962	23114422	TRANSISTOR, 2SA562TM-Y(T
Q963	23114433	TRANSISTOR, 2SC1815-Y
Q964	23114425	TRANSISTOR, 2SA1015-Y(TE
Q965	23114433	TRANSISTOR, 2SC1815-Y
Q966	23114425	TRANSISTOR, 2SA1015-Y(TE
Q4451	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q4452	23114497	TRANSISTOR, RN1406
Q4453	23114497	TRANSISTOR, RN1406
Q4454	23114497	TRANSISTOR, RN1406
Q4471	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q9601	23114425	TRANSISTOR, 2SA1015-Y(TE
Q9602	23114425	TRANSISTOR, 2SA1015-Y(TE

Location No.	Parts No.	Description
Q9605	23114433	TRANSISTOR, 2SC1815-Y
Q9606	23114425	TRANSISTOR, 2SA1015-Y(TE
QA01	23009139	IC, 750010-187S
QA02	23906642	IC, AT24C64-10PC
QA05	23205014	TRANSISTOR, 2SC4667-O
QA60	23205116	TRANSISTOR, 2SC5343UF-Y(B
QA61	23000864	IC, 256K BIT CMOS EEPROM AT24C256-10PC
QB01	23314791	TRANSISTOR, VCEO=-50V TO-92 2PA1015Y
QB03	23314791	TRANSISTOR, VCEO=-50V TO-92 2PA1015Y
QB04	23205112	TRANSISTOR, 2SA1980UF-Y(
QB04	23314791	TRANSISTOR, VCEO=-50V TO-92 2PA1015Y
QB05	23205116	TRANSISTOR, 2SC5343UF-Y(B
QB06	23205112	TRANSISTOR, 2SA1980UF-Y(
QB81	70114396	TRANSISTOR, 2SC3326B
QB82	70114396	TRANSISTOR, 2SC3326B
QB83	23205112	TRANSISTOR, 2SA1980UF-Y(
QB92	23205116	TRANSISTOR, 2SC5343UF-Y(B
QB93	23205112	TRANSISTOR, 2SA1980UF-Y(
QB94	23205112	TRANSISTOR, 2SA1980UF-Y(
QB95	23205112	TRANSISTOR, 2SA1980UF-Y(
QB96	23205112	TRANSISTOR, 2SA1980UF-Y(
QR01	23009037	IC, OSD 28SDIP 512CHR MB90096P-G-23
QR03	23205112	TRANSISTOR, 2SA1980UF-Y(
QR35	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR36	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR38	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR40	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS01	70114396	TRANSISTOR, 2SC3326B
QS02	70114396	TRANSISTOR, 2SC3326B
QS03	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS04	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS05	70114396	TRANSISTOR, 2SC3326B
QS06	70114396	TRANSISTOR, 2SC3326B
QS07	70114396	TRANSISTOR, 2SC3326B
QS08	70114396	TRANSISTOR, 2SC3326B
QS09	23114493	TRANSISTOR, CHIP R1=R2=47K SMT RN2404
QT01	23000724	IC, TELETEXT DECODER SAA5667HL-EUR
QT02	23314993	TRANSISTOR, 2SC4081 Q
QT05	23314993	TRANSISTOR, 2SC4081 Q
QT06	23000283	IC, 23000283L NI TOUITSU R1121Nx
QT08	23314993	TRANSISTOR, 2SC4081 Q
QT09	23000727	IC, SRAM 1M M5M51008BVP12
QT10	23314993	TRANSISTOR, 2SC4081 Q
QT11	23009114	IC, BD4746G-TR
QT12	23314994	TRANSISTOR, 2SA1576A106
QT13	23314994	TRANSISTOR, 2SA1576A106
QT14	23314994	TRANSISTOR, 2SA1576A106
QT15	23314994	TRANSISTOR, 2SA1576A106
QV01	23000368	IC, A/V SW SOP-44 MM1495XF
QV02	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV03	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV04	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV05	23205112	TRANSISTOR, 2SA1980UF-Y(
QV09	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
QV12	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
QV14	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
QW02	23905013	IC, TLC2932IPW
QW03	23318825	IC, TC7S32F
QW04	23318823	IC, TC7S04F
QW05	23318825	IC, TC7S32F
QW06	23114433	TRANSISTOR, 2SC1815-Y
QW06	23904396	IC, TC7S14F
QW07	23114437	TRANSISTOR, 2SC752GTM-Y

Location No.	Parts No.	Description
QW07	23904122	IC, TC7S86F
QW09	23114433	TRANSISTOR, 2SC1815-Y
QW10	23114425	TRANSISTOR, 2SA1015-Y(TE
QW10	23314204	TRANSISTOR, 2SC2412K,Q
QW11	23314204	TRANSISTOR, 2SC2412K,Q
QW12	23314204	TRANSISTOR, 2SC2412K,Q
QW13	23314204	TRANSISTOR, 2SC2412K,Q
QW14	23314204	TRANSISTOR, 2SC2412K,Q
QW15	23314204	TRANSISTOR, 2SC2412K,Q
QW18	23314204	TRANSISTOR, 2SC2412K,Q
QW19	23114433	TRANSISTOR, 2SC1815-Y
QW20	23114433	TRANSISTOR, 2SC1815-Y
QW20	23314204	TRANSISTOR, 2SC2412K,Q
QW21	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW22	23314204	TRANSISTOR, 2SC2412K,Q
QW23	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW24	23314204	TRANSISTOR, 2SC2412K,Q
QW25	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW30	23314475	TRANSISTOR, 2SC2712-Y
QW31	23906295	IC, UPC29M33HB
QW40	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW41	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW42	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW43	23314202	TRANSISTOR, 2SA1037K, Q, 23205045 NI HENKOU
QW51	23314909	TRANSISTOR, 2SA1837
QW52	23314912	TRANSISTOR, 2SC4793
QZ01	23000796	IC, CMOS MULTI COMB SOP28 TC90A69F(ELP)
QZ02	23205116	TRANSISTOR, 2SC5343UF-Y(B
QZ04	23205112	TRANSISTOR, 2SA1980UF-Y(
QZ05	23205112	TRANSISTOR, 2SA1980UF-Y(
QZ07	23205112	TRANSISTOR, 2SA1980UF-Y(
QZ08	23205116	TRANSISTOR, 2SC5343UF-Y(B
D101	23316755	DIODE, ZENER, MTZJ33C
D201	23118041	DIODE, MA111
D301	23357169	DIODE, ZENER, UDZS6.8B
D302	23118094	DIODE, EU2A
D304	23316794	DIODE, SC570A
D305	23118822	DIODE, ERB12-02
D306	23118822	DIODE, ERB12-02
D308	23316583	DIODE, ZENER, MA8039-H
D310	23118041	DIODE, MA111
D370	23118041	DIODE, MA111
D401	23118094	DIODE, EU2A
D402	23118094	DIODE, EU2A
D403	23316254	DIODE, ERC06-15
D405	23316254	DIODE, ERC06-15
D406	23115910	DIODE, S5295G
D412	23118707	DIODE, RP-1H
D413	23118707	DIODE, RP-1H
D420	23115599	DIODE, 1N4148
D421	23118094	DIODE, EU2A
D425	23118094	DIODE, EU2A
D426	23118275	DIODE, ZENER, RD18MB2
D461	23316969	DIODE, ERD29-06
D490	23115599	DIODE, 1N4148
D490	23115774	DIODE, ZENER, RD6.2E(FA-1)
D491	23118041	DIODE, MA111

Location No.	Parts No.	Description
D491	23316758	DIODE, ZENER, MTZJ36B
D492	23118621	DIODE, ZENER, RD10ESA B3
D503	23118041	DIODE, MA111
D505	23115599	DIODE, 1N4148
D505	23118041	DIODE, MA111
D506	23316673	DIODE, ZENER, MTZJ5.6C
D511	23357037	DIODE, ZENER, UDZS5.6B
D514	23357037	DIODE, ZENER, UDZS5.6B
D515	23357037	DIODE, ZENER, UDZS5.6B
D601	23118041	DIODE, MA111
D602	23118041	DIODE, MA111
D603	23118041	DIODE, MA111
D604	23118041	DIODE, MA111
D605	23118041	DIODE, MA111
D606	23118041	DIODE, MA111
D607	23118041	DIODE, MA111
D608	23118041	DIODE, MA111
D609	23118041	DIODE, MA111
D610	23118041	DIODE, MA111
D611	23118041	DIODE, MA111
D628	23118269	DIODE, ZENER, RD22MB2
D701	23115599	DIODE, 1N4148
D702	23115599	DIODE, 1N4148
D703	23115599	DIODE, 1N4148
D704	23115599	DIODE, 1N4148
D705	23316675	DIODE, ZENER, MTZJ6.2B
D706	23316675	DIODE, ZENER, MTZJ6.2B
D707	23316675	DIODE, ZENER, MTZJ6.2B
D801	23316962	DIODE, S1WBA20
D802	23357041	DIODE, LN6SB60-F05
D816	24000656	VARISTOR, TNR15G471K
D817	23115599	DIODE, 1N4148
D818	23316672	DIODE, ZENER, MTZJ5.6B
D820	23316757	DIODE, ZENER, MTZJ36A
D821	23115599	DIODE, 1N4148
D830	23115532	DIODE, ERB12-01
D830	23115599	DIODE, 1N4148
D832	23115532	DIODE, ERB12-01
D845	23357215	DIODE, D4SBS6
D845B	70391355	SCREW, 3X8MM
D846	23118060	DIODE, AL01Z
D854	23357214	DIODE, D4SBS4
D856	23357216	DIODE, D4SBL20U
D858	23115599	DIODE, 1N4148
D859	23357042	DIODE, FMX-12S(023-108)
D859B	70391355	SCREW, 3X8MM
D860	23357217	DIODE, D4SBL40
D862	23118057	DIODE, AG01A
D863	23316689	DIODE, ZENER, MTZJ10A
D864	23118060	DIODE, AL01Z
D873	23316747	DIODE, ZENER, MTZJ27C
D875	23316688	DIODE, ZENER, MTZJ9.1C
D876	23316753	DIODE, ZENER, MTZJ33A
D877	23316747	DIODE, ZENER, MTZJ27C
D878	23316686	DIODE, ZENER, MTZJ9.1A
D893	23316669	DIODE, ZENER, MTZJ5.1B
D894	23316745	DIODE, ZENER, MTZJ27A
D901	23115599	DIODE, 1N4148
D902	23115599	DIODE, 1N4148
D903	23115599	DIODE, 1N4148
D911	23115599	DIODE, 1N4148
D912	23115599	DIODE, 1N4148
D913	23115599	DIODE, 1N4148
D914	23115599	DIODE, 1N4148
D915	23115599	DIODE, 1N4148

Location No.	Parts No.	Description
D921	23115599	DIODE, 1N4148
D922	23115599	DIODE, 1N4148
D924	23115599	DIODE, 1N4148
D925	23115599	DIODE, 1N4148
D926	23115599	DIODE, 1N4148
D965	23115599	DIODE, 1N4148
D966	23115599	DIODE, 1N4148
D4401	23118041	DIODE, MA111
D4402	23118041	DIODE, MA111
D4451	23115532	DIODE, ERB12-01
D4452	23357170	DIODE, ZENER, UDZS8.2B
D4453	23118041	DIODE, MA111
D4471	23357172	DIODE, ZENER, UDZS10B
D4472	23118041	DIODE, MA111
D7703	23118538	DIODE, ZENER, RD6.2ES
D7705	23118041	DIODE, MA111
D7706	23118041	DIODE, MA111
D7707	23118041	DIODE, MA111
D7708	23118041	DIODE, MA111
D7710	23316716	DIODE, ZENER, MTZJ11B
D7713	23118041	DIODE, MA111
D7736	23118041	DIODE, MA111
D7743	23115532	DIODE, ERB12-01
D7744	23115532	DIODE, ERB12-01
DA42	23316673	DIODE, ZENER, MTZJ5.6C
DB01	23358564	LED, LAMP RED SLR-56VC3FPQ
DB02	23358563	LED, LAMP GREEN SLR-56MC3FPQR
DB03	23358563	LED, LAMP GREEN SLR-56MC3FPQR
DB04	23358562	LED, LAMP ORANGE SLR-56DC3FPQ
DR01	23118041	DIODE, MA111
DR02	23118041	DIODE, MA111
DR03	23118041	DIODE, MA111
DR61	23118041	DIODE, MA111
DR62	23118041	DIODE, MA111
DR63	23118041	DIODE, MA111
DR70	23357037	DIODE, ZENER, UDZS5.6B
DV08	23118041	DIODE, MA111
DW04	23115599	DIODE, 1N4148
DW05	23115599	DIODE, 1N4148
DW21	23115599	DIODE, 1N4148
MISCELLANEOUS		
B224	23035412	SCREW, BTB4X12SZN
B230	23037312	SCREW, BTBW3X12SZN
B231	23845856	WIRE CLAMP, POF COAT) L=70MM
B233	23035412	SCREW, BTB4X12SZN
B236	23037312	SCREW, BTBW3X12SZN
B237	23037312	SCREW, BTBW3X12SZN
B240	23035412	SCREW, BTB4X12SZN
B241	23035412	SCREW, BTB4X12SZN
BB20A	23902749	CONNECTOR, B-B, 6P
BB21A	23713013	BASE SOCKET 16P 1.5
BB21B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB23	23902749	CONNECTOR, B-B, 6P
BB23B	23368517	CONNECTOR, B-B, 6P
BB24A	23713013	BASE SOCKET 16P 1.5
BB24B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB80A	23713013	BASE SOCKET 16P 1.5
BB80B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB82A	23713013	BASE SOCKET 16P 1.5
BB82B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB85A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E

Location No.	Parts No.	Description
BB701	23368517	CONNECTOR, B-B, 6P
E921	23964147	COOLANT, COOLANT
E928	23858634	SPACER (CRT HOLDER)
E951	23964147	COOLANT, COOLANT
E958	23858634	SPACER (CRT HOLDER)
E981	23964147	COOLANT, COOLANT
E988	23858634	SPACER (CRT HOLDER)
⚠ F801	23144507	FUSE, CARTRIDGE 5.2X20 250V 3.15A
F801A	23165433	FUSE HOLDER, 5.2 SOC
F801B	23165433	FUSE HOLDER, 5.2 SOC
G005	23115599	DIODE, 1N4148
G023	24327180	METAL FILM, 1/4W 180 OHM F
G103	23103828	INDUCTOR, BEAD, TEM2121M
G510	23289479	COIL, PEAKING, TRF44R7AF
G601	24000445	CHIP JUMPER, 1608TYPE
G602	24000445	CHIP JUMPER, 1608TYPE
G603	24000445	CHIP JUMPER, 1608TYPE
G604	24000445	CHIP JUMPER, 1608TYPE
GA37	23103828	INDUCTOR, BEAD, TEM2121M
GA38	23103828	INDUCTOR, BEAD, TEM2121M
GA39	23103828	INDUCTOR, BEAD, TEM2121M
GA40	23103828	INDUCTOR, BEAD, TEM2121M
GA41	23103828	INDUCTOR, BEAD, TEM2121M
GC01	24000445	CHIP JUMPER, 1608TYPE
GC02	23103828	INDUCTOR, BEAD, TEM2121M
GC03	24000445	CHIP JUMPER, 1608TYPE
GC04	23103828	INDUCTOR, BEAD, TEM2121M
GC15	24000445	CHIP JUMPER, 1608TYPE
GC16	24000445	CHIP JUMPER, 1608TYPE
GC17	23103828	INDUCTOR, BEAD, TEM2121M
GJ03	24000445	CHIP JUMPER, 1608TYPE
GJ04	24000445	CHIP JUMPER, 1608TYPE
GJ05	24000445	CHIP JUMPER, 1608TYPE
GJ08	24000445	CHIP JUMPER, 1608TYPE
GJ11	24000445	CHIP JUMPER, 1608TYPE
GJ13	24000445	CHIP JUMPER, 1608TYPE
GJ14	24000445	CHIP JUMPER, 1608TYPE
GJ16	24000445	CHIP JUMPER, 1608TYPE
GJ17	24000445	CHIP JUMPER, 1608TYPE
GJ18	24000445	CHIP JUMPER, 1608TYPE
GJ21	24000445	CHIP JUMPER, 1608TYPE
GJ22	24000445	CHIP JUMPER, 1608TYPE
GJ23	24000445	CHIP JUMPER, 1608TYPE
GJ24	24000445	CHIP JUMPER, 1608TYPE
GJ30	24000445	CHIP JUMPER, 1608TYPE
GJ47	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000824	JUMPER CHIP, 2125TYPE
GJ49	24000445	CHIP JUMPER, 1608TYPE
GJ51	24000445	CHIP JUMPER, 1608TYPE
GJ62	24000445	CHIP JUMPER, 1608TYPE
GJ63	24000445	CHIP JUMPER, 1608TYPE
GJ68	24000445	CHIP JUMPER, 1608TYPE
GJ73	24000445	CHIP JUMPER, 1608TYPE
GJ74	24000445	CHIP JUMPER, 1608TYPE
GJ75	24000445	CHIP JUMPER, 1608TYPE
GJ76	24000445	CHIP JUMPER, 1608TYPE
GJ76	24000445	CHIP JUMPER, 1608TYPE
GJ77	24000445	CHIP JUMPER, 1608TYPE
GJ78	24000445	CHIP JUMPER, 1608TYPE
GJ79	24000445	CHIP JUMPER, 1608TYPE
GJ705	24000824	JUMPER CHIP, 2125TYPE
GJ707	24000824	JUMPER CHIP, 2125TYPE
GJ708	24000824	JUMPER CHIP, 2125TYPE
GJ711	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
GJ712	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
GJ713	24000824	JUMPER CHIP, 2125TYPE
GJ714	24000824	JUMPER CHIP, 2125TYPE
GJ718	24000824	JUMPER CHIP, 2125TYPE
GJ777	24000445	CHIP JUMPER, 1608TYPE
GT03	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT04	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT05	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT07	24000445	CHIP JUMPER, 1608TYPE
GT09	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
H002	23148745	MODULE, NICAM/IGR A-PRO, MPSN11C
JR01	24000445	CHIP JUMPER, 1608TYPE
KB01	23000852	IC, REMOCON RECEIVER, PIC-37043TE2
P661	23365444	JACK, EARPHONE, D3.5 HOSIDEN
P701	23367724	CONNECTOR, B-B, 15P
P702	23367724	CONNECTOR, B-B, 15P
P708	23902655	CONNECTOR, 15P
P709	23902655	CONNECTOR, 15P
P713	23164787	CONNECTOR, PLUG, 7P
P714	23164787	CONNECTOR, PLUG, 7P
P715	23164787	CONNECTOR, PLUG, 7P
P800	23368013	CONNECTOR, PLUG, 2P 11.88MM W VT-JST
⚠ P801	23372012	POWER CORD, POWER CORD
⚠ P801	23372052	POWER CORD, 250V2.5A
PF01	23902655	CONNECTOR, 15P
PH02	23365598	21 PIN CONNECTOR 2100RFT 21 PIN C0NNECT0R
PT01	23367724	CONNECTOR, B-B, 15P
PW01	23368130	CONNECTOR, 10P
PW02	23368130	CONNECTOR, 10P
PW06	23902213	CONNECTOR, 10P
PW07	23902213	CONNECTOR, 10P
⚠ S801	23145434	SWITCH, 2C2P, POWER
SA01	23145226	SWITCH, 1C1P, PUSH
SA02	23145226	SWITCH, 1C1P, PUSH
SA03	23145226	SWITCH, 1C1P, PUSH
SA04	23145226	SWITCH, 1C1P, PUSH
SA06	23145226	SWITCH, 1C1P, PUSH
SA07	23145226	SWITCH, 1C1P, PUSH
SA08	23145226	SWITCH, 1C1P, PUSH
⚠ SR81	23146574	RELAY, DLS5D1-O(M) 0.15W
⚠ V901A	23903148	SOCKET, ISH-44S-E ICE #5
⚠ V902A	23903148	SOCKET, ISH-44S-E ICE #5
⚠ V903A	23903148	SOCKET, ISH-44S-E ICE #5
W661	23351131	SPEAKER, SPK11390, 120X120, 8 OHM, 15W
W662	23351131	SPEAKER, SPK11390, 120X120, 8 OHM, 15W
X501	23153438	CRYSTAL, 16.200 25PPM 25OHM
X4402	23153721	CERAMIC RESONATOR, 503KHZ
XA01	23153497	CERAMIC RESONATER, TCR1080AM
XT01	23153930	CRYSTAL
⚠ Z410	23110842	FOCUS PACK, TPA6031
Z410A	23505177	CABLE, FOCUS
⚠ Z450	24083013	COMPOSITE PARTS, CR-BLOCK, TPA5010AH
Z702	23103823	COIL, FILTER, TEM2027D
Z703	23103823	COIL, FILTER, TEM2027D
Z704	23103823	COIL, FILTER, TEM2027D
Z705	23103823	COIL, FILTER, TEM2027D
Z706	23103823	COIL, FILTER, TEM2027D
Z707	23103823	COIL, FILTER, TEM2027D
Z711	23103823	COIL, FILTER, TEM2027D
Z712	23103823	COIL, FILTER, TEM2027D

Location No.	Parts No.	Description
⚠ Z853	23144608	PROTECTOR, PRT SERIES, DC60V/AC90V 4000MA
⚠ Z854	23144608	PROTECTOR, PRT SERIES, DC60V/AC90V 4000MA
Z856	23144605	PROTECTOR, PRT SERIES, DC60V/AC90V 2000MA
Z857	23144607	PROTECTOR, PRT SERIES, DC60V/AC90V 3150MA
Z858	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
Z859	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
⚠ Z860	23144480	PROTECTOR, CURRENT, AC125V 3.15A
Z861	23144605	PROTECTOR, PRT SERIES, DC60V/AC90V 2000MA

PC BOARD ASSEMBLIES

Location No.	Parts No.	Description
* U101	23787349	SIGNAL BOARD, PD0380B
* U102	23787350	DEF/CONV BOARD, PD0381B
* U103	23787351	D-CONVER BOARD, PD0382B
* U104	23787247	TEXT-P2 BOARD, PD0267A
* U105	23784625	ED-WAC BOARD, PB8892B
* U901A	23787352	CRTD RED BOARD, PD0383B1
* U901B	23787353	CRTD GREEN BOARD, PD0383B2
* U901C	23787354	CRTD BLUE BOARD, PD0383B3
* U901D	23787355	SVM BOARD, PD0383B4
* U902	23786974	MAIN-POWER BOARD, PD0384A
* U903A	23786829	FRONT IN BOARD, PD0208B1
* U903B	23786830	RMT IN BOARD, PD0208B2
* U903C	23786831	KEY-IND BOARD, PD0208B3

PICTURE TUBE

Location No.	Parts No.	Description
⚠ V911R	23588741	SERVICE KIT, PJTV CRT-R
⚠ V912B	23588742	SERVICE KIT, PJTV CRT-G
⚠ V913G	23588743	SERVICE KIT, PJTV CRT-B

TUNER

Location No.	Parts No.	Description
H001	23321398	TUNER, EURO IF ALPS TADF4-003A

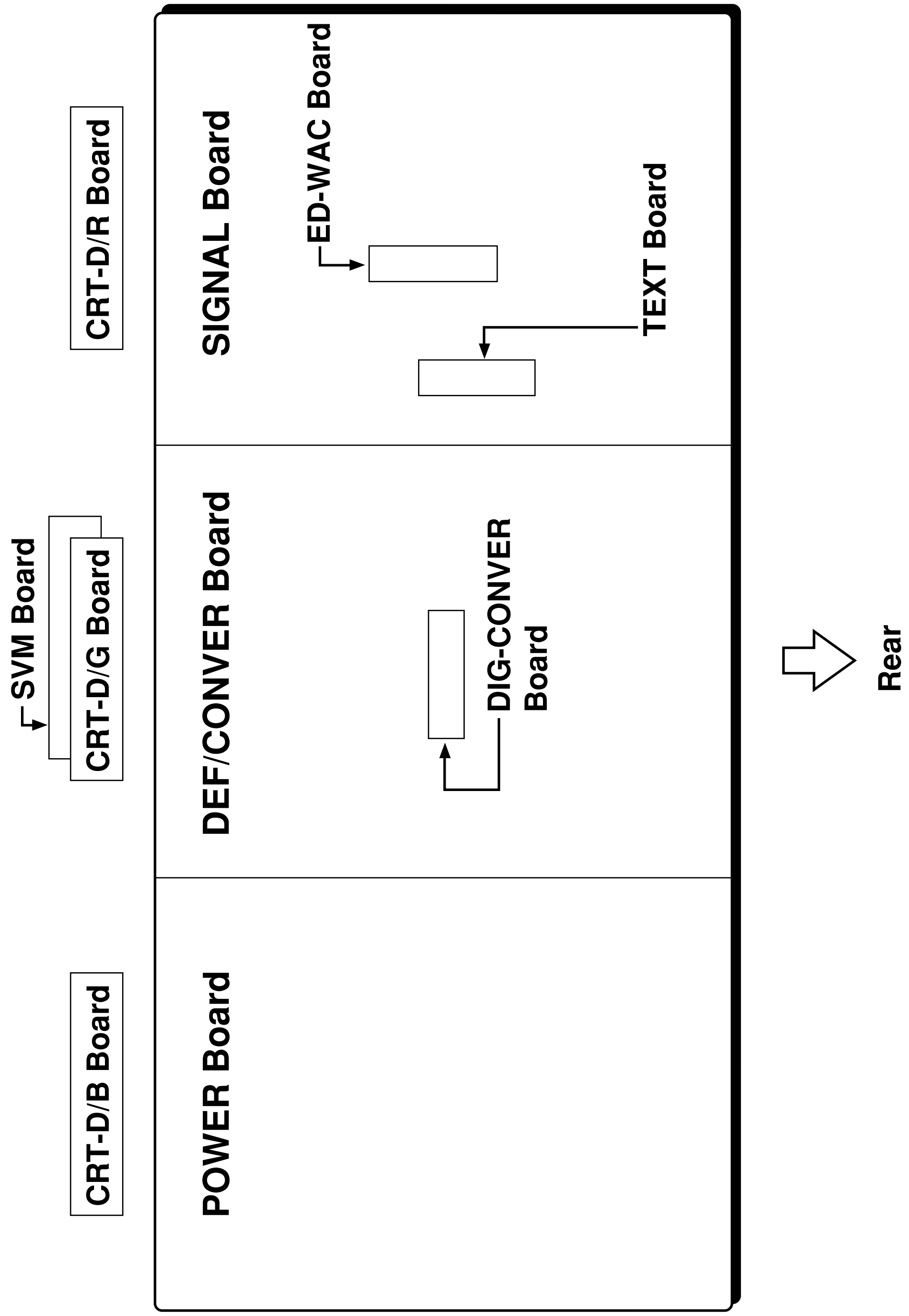
ACCESSORIES

Location No.	Parts No.	Description
K902	23306435	REMOCON HAND UNIT IR, CTVPAL CT-90101
Y101A	23565548	OWNER’S MANUAL, ENGLISH, 42PW23P
Y101B	23565549	OWNER’S MANUAL, FRENCH, 42PW23P
Y101C	23565550	OWNER’S MANUAL, GER, 42PW23P
Y101D	23565551	OWNER’S MANUAL, ITA, 42PW23P
Y101E	23565552	OWNER’S MANUAL, SPA, 42PW23P
Y101F	23565554	OWNER’S MANUAL, DEN, 42PW23P
Y101G	23565555	OWNER’S MANUAL, SWE, 42PW23P
Y101H	23565556	OWNER’S MANUAL, FIN, 42PW23P
Y101I	23565557	OWNER’S MANUAL, NOR, 42PW23P
Y101J	23565558	OWNER’S MANUAL, DUTCH, 42PW23P
Y101K	23565553	OWNER’S MANUAL, PORT, 42PW23P
Y101L	23565559	OWNER’S MANUAL, POL, 42PW23P
Y101M	23565560	OWNER’S MANUAL, TRK, 42PW23P

CABINET PARTS

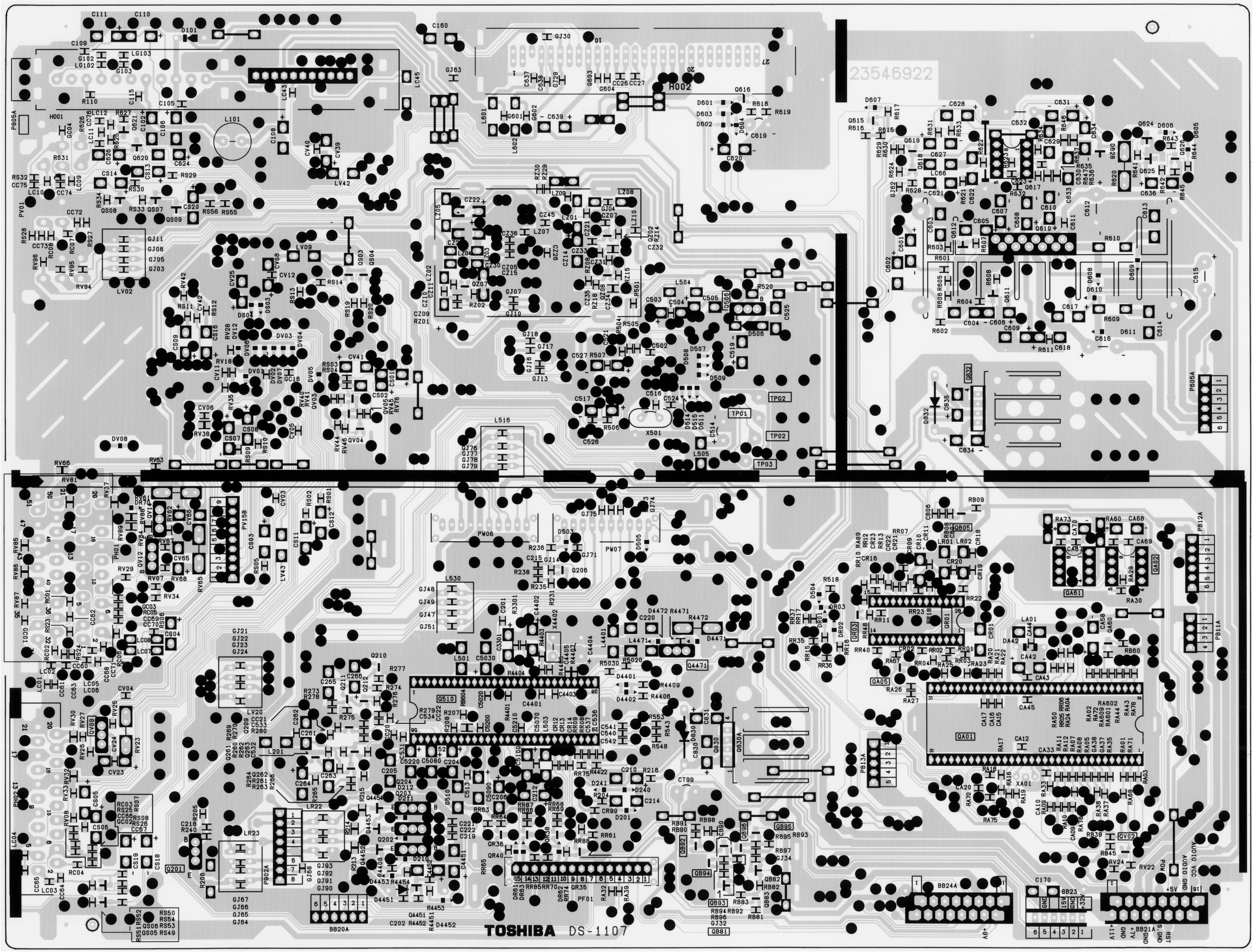
Location No.	Parts No.	Description
A001	23008798	OTHER BLOCK, WOOD CABINET 42WH18P
A125	23560038	LABEL, ATTENTION SERVICE 48PJ6DB
A201	23540760	COVER, BEZEL 42WT19B
A202	23450480	CONTROL PANEL
A213	23428068	DOOR
A214	70368125	PUSH CATCH
A223	23929540	PIECE, BUTTON POWER 42WT19B
A225	23445538	BUTTON, CONTROL KEY 42WT19B
A258	23527214	SPEAKER GRILLE
A420	23540761	COVER, MIRROR COVER 42WT19B
A421	23411197	CABINET, REAR PLATE 43PJ93B 43PJ93B;C995026EP1
⚠ A424	23411597	CABINET, BENTED BACK BOARD 42WT19B
A505	72471068	SCREW, 4X12
A508	23035412	SCREW, BTB4X12SZN
A529	23037312	SCREW, BTBW3X12SZN
A543	72471068	SCREW, 4X12
A547	23035010	SCREW, PBI 4X16
A701	23064584	CARTON, CASE 42WT19B
A702	23946233	PACKING, TOP PACKING 42WT19B
A703	23946234	PACKING, TOP PACKING 42WT19B
A726	23974753	POLYPROPYLENE BAND, 3327DB
A727	23974753	POLYPROPYLENE BAND, 3327DB
A731D	23560820	LABEL,IN HOUSE CARTON(57YEL), 28MW7DB
K101	23405101	LENS, DELTA71-A/B
K102	23405101	LENS, DELTA71-A/B
K103	23405101	LENS, DELTA71-A/B
K501	23311897	SCREEN, 42KL LENTICULAR SHEET SCREEN42KL-L
K502	23311921	SCREEN, 42KLU FRESNEL SHEET SCREEN42KLUF
K601	23405045	MIRROR, MIRROR 42W FIRST T3 42WT19B

PC BOARDS LAYOUT TOP VIEW


CRT-D/R Board
SVM Board
CRT-D/G Board
CRT-D/B Board
SIGNAL Board
ED-WAC Board
TEXT Board
DEF/CONVER Board
DIG-CONVER Board
POWER Board
Rear

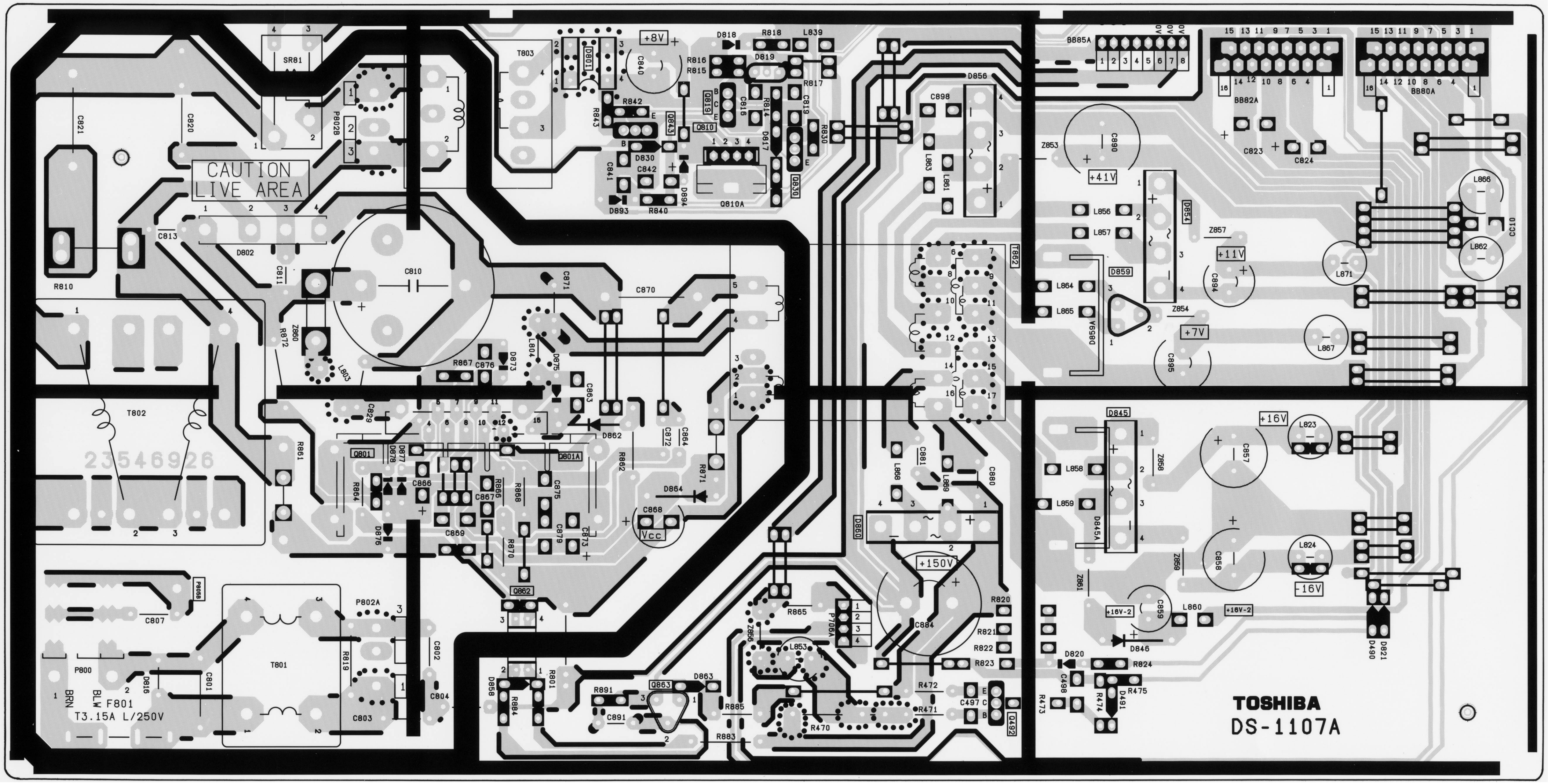
SIGNAL BOARD PD0380B

BOTTOM (FOIL) SIDE


23546922
TOSHIBA
DS-1107
BB20A
BB24A
BB21A
P605A
PB12A
PB11A
PB13A
P902A
P805A

MAIN-POWER BOARD PD0384A

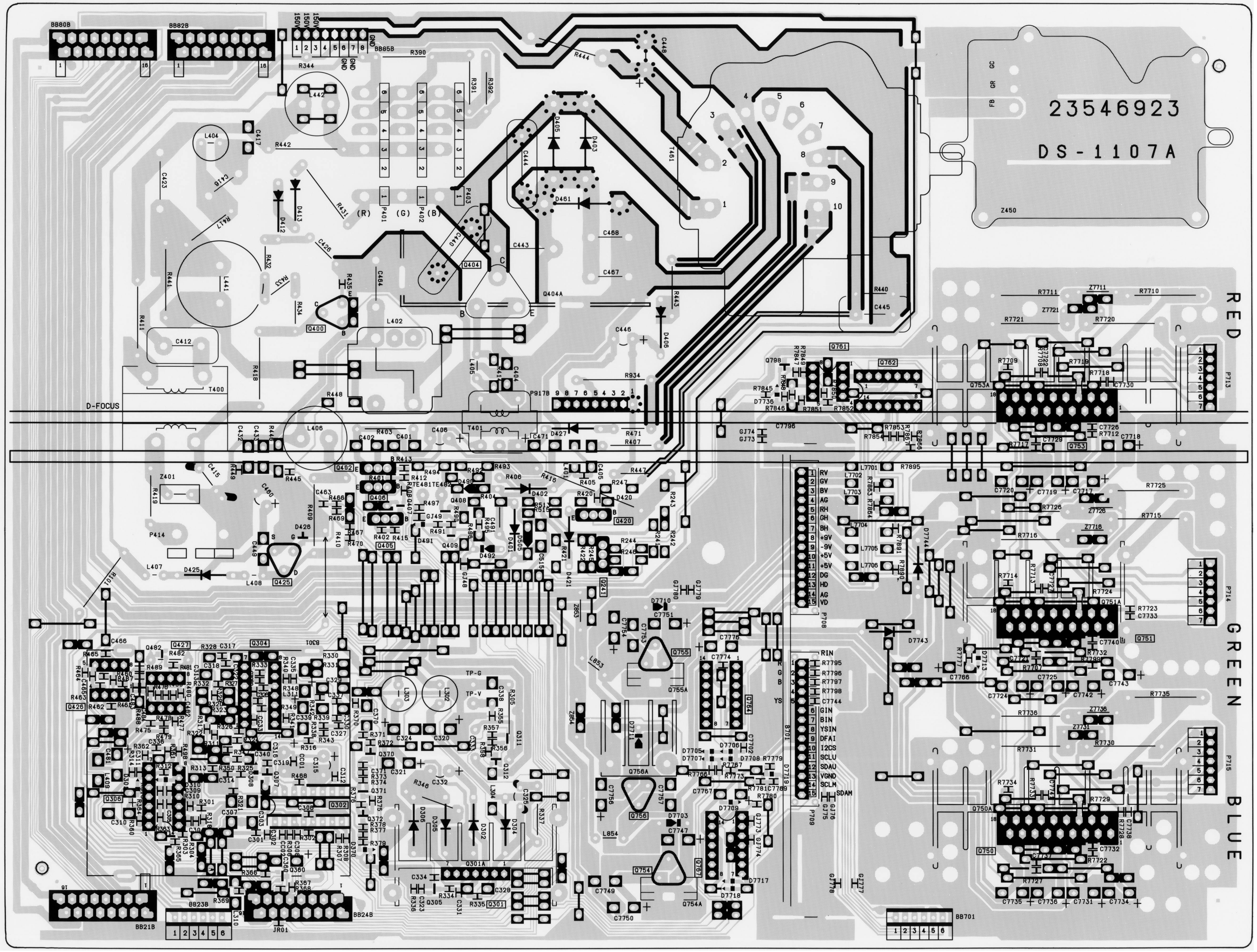
BOTTOM (FOIL) SIDE



CAUTION
LIVE AREA
SR81
P802B
T803
+8V
D818
R818
L839
D819
R816
R815
R817
C840
D801
R842
R843
D843
Q810
C816
R814
D817
C819
R830
D830
C842
C841
D894
D893
R840
Q810A
D836
D856
C898
L863
L861
Z853
C890
+41V
BB85A
BB82A
C823
C824
BB80A
L866
C810
L862
L871
L867
C821
C820
C813
D802
C811
R810
C810
C871
C870
D854
Z857
+11V
C894
D859
L856
L857
L864
L865
V6580
Z854
+7V
C895
T862
R872
Z860
L803
R867
C876
D873
D875
L804
C863
T802
C829
23546926
R861
Q801
D878
D877
D801A
D862
R862
C872
C864
R871
C866
R864
R866
R868
C867
C875
C879
C873
D864
C868
Vcc
D876
C869
R870
L868
C881
L869
C880
D845
+16V
L823
Z858
C857
L858
L859
D845A
D860
+150V
C858
Z859
L824
-16V
Z861
+16V-2
C859
L860
D846
D821
D490
D820
C498
R824
R474
D491
R475
R473
Q862
C807
P802A
T801
R819
C802
C801
C804
C803
P800
BRN
BLW F801
T3.15A L/250V
D816
D858
R884
R801
R891
Q863
D863
C891
R885
R883
R865
P706A
Z856
L853
C884
R820
R821
R822
R823
R472
R471
R470
C497
Q492
TOSHIBA
DS-1107A

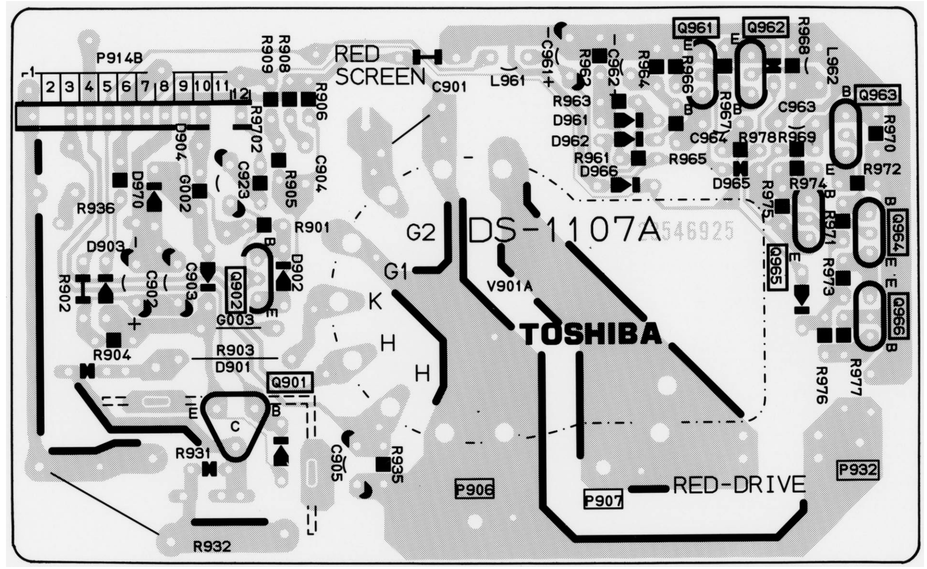
DEF/CONV BOARD PD0381B

BOTTOM (FOIL) SIDE


BB80B
BB82B
BB85B
150V
GND
23546923
DS-1107A
Z450
GC
GR
FB
T461
L442
L404
L441
L402
L406
T400
T401
D-FOCUS
Z401
P414
P401
P402
P403
(R)
(G)
(B)
Q400
Q402
Q404
Q404A
Q405
Q420
Q425
Q426
Q427
Q304
Q301A
Q301
Q302
Q305
Q306
Q311
Q312
TP-G
TP-V
L303
L302
P917B
Q761
Q762
Q753
Q753A
Q751
Q751A
Q750
Q750A
Q754
Q754A
Q755
Q755A
Q756
Q756A
P708
P709
P713
P714
P715
B701
RED
GREEN
BLUE
RV
GV
BV
AG
RH
GH
BH
+9V
-9V
+5V
+5V
DG
HD
AG
VD
RIN
GIN
BIN
YSIN
DFAI
I2CS
SCLU
SDAU
VGND
SCLM
SDAM
BB21B
BB23B
BB24B
BB701
JR01

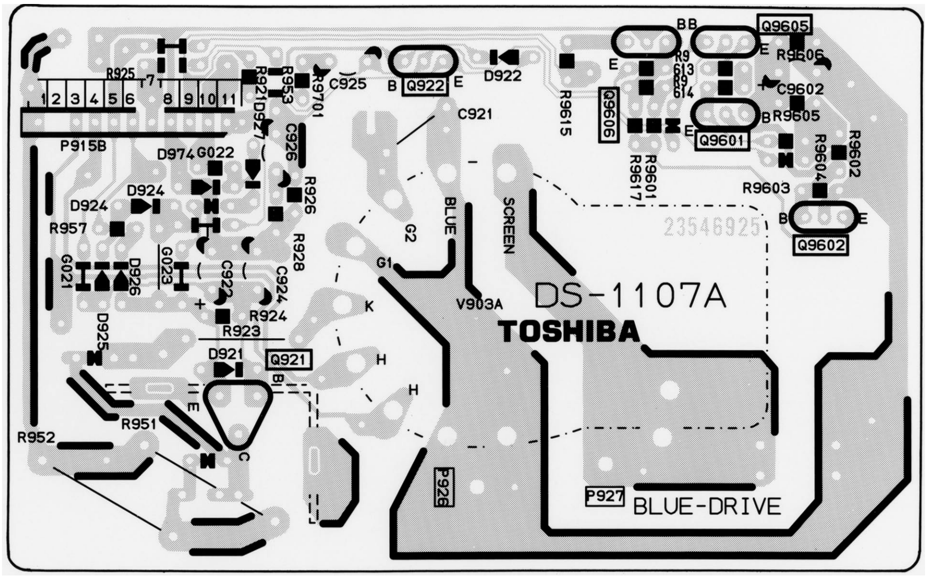
CRT-D RED BOARD PD0383B-1

BOTTOM (FOIL) SIDE


P914B
RED
SCREEN
C901
L961
Q961
Q962
Q963
Q964
Q965
Q966
Q901
Q902
G2
G1
K
H
DS-1107A
V901A
TOSHIBA
P906
P907
RED-DRIVE
P932
R931
R932
R936
R902
R904
D903
D901
R903
G003
C905
R935

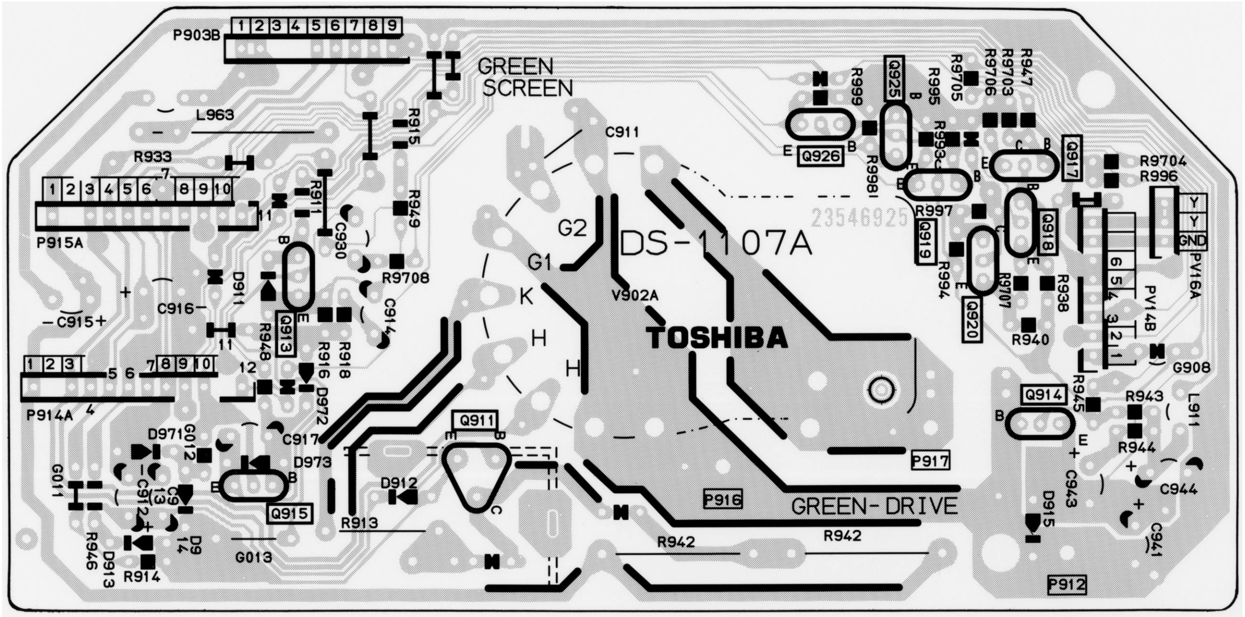
CRT-D BLUE BOARD PD0383B-3

BOTTOM (FOIL) SIDE


P915B
Q922
D922
C921
C925
Q9605
Q9606
Q9601
Q9602
Q921
D921
D924
R957
R923
R924
R952
R951
BLUE
SCREEN
G2
G1
K
H
V903A
DS-1107A
TOSHIBA
P926
P927
BLUE-DRIVE

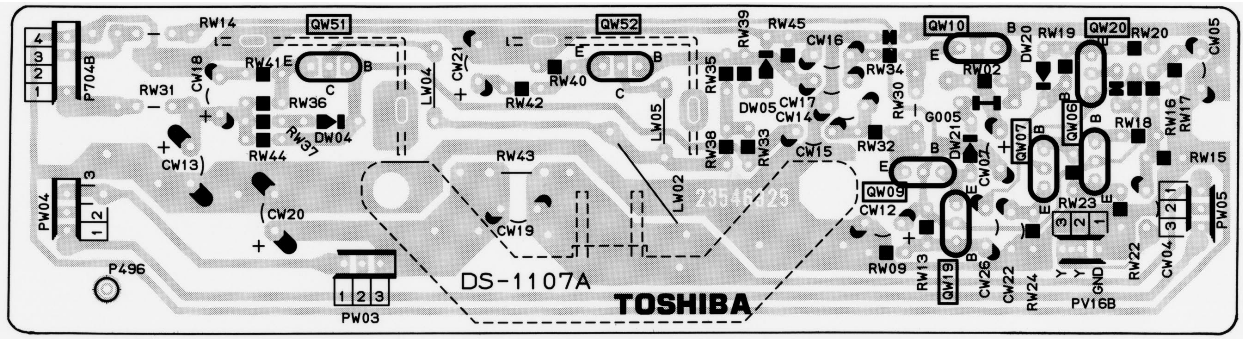
CRT-D GREEN BOARD PD0383B-2

BOTTOM (FOIL) SIDE


P903B
GREEN
SCREEN
L963
R933
P915A
C916
C915
P914A
C911
Q926
Q925
Q919
Q920
Q918
Q917
Q914
Q913
Q911
Q915
G2
G1
K
H
DS-1107A
V902A
TOSHIBA
P916
P917
GREEN-DRIVE
R942
R913
R914
G013
P912
PV14B
PV16A
G908
L911

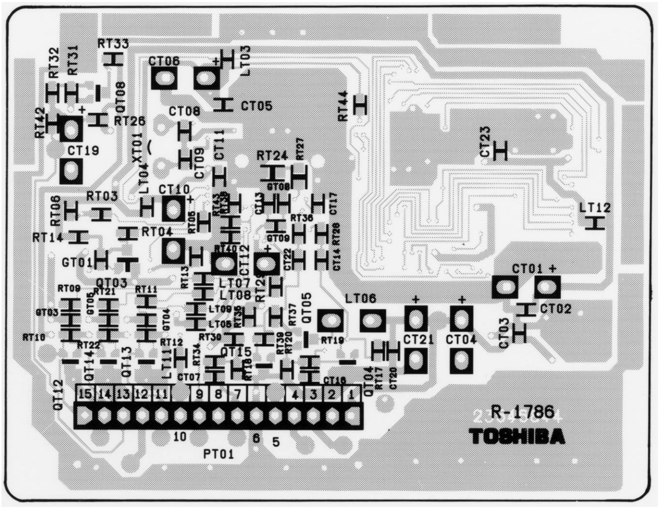
SVM BOARD PD0383B-4

BOTTOM (FOIL) SIDE


P704B
RW14
QW51
QW52
QW10
QW20
RW31
RW36
RW37
RW44
CW13
CW18
CW20
CW19
LW04
LW05
LW02
RW43
RW40
RW42
QW09
QW07
QW06
QW19
PW04
P496
PW03
DS-1107A
TOSHIBA
PV16B
PW05

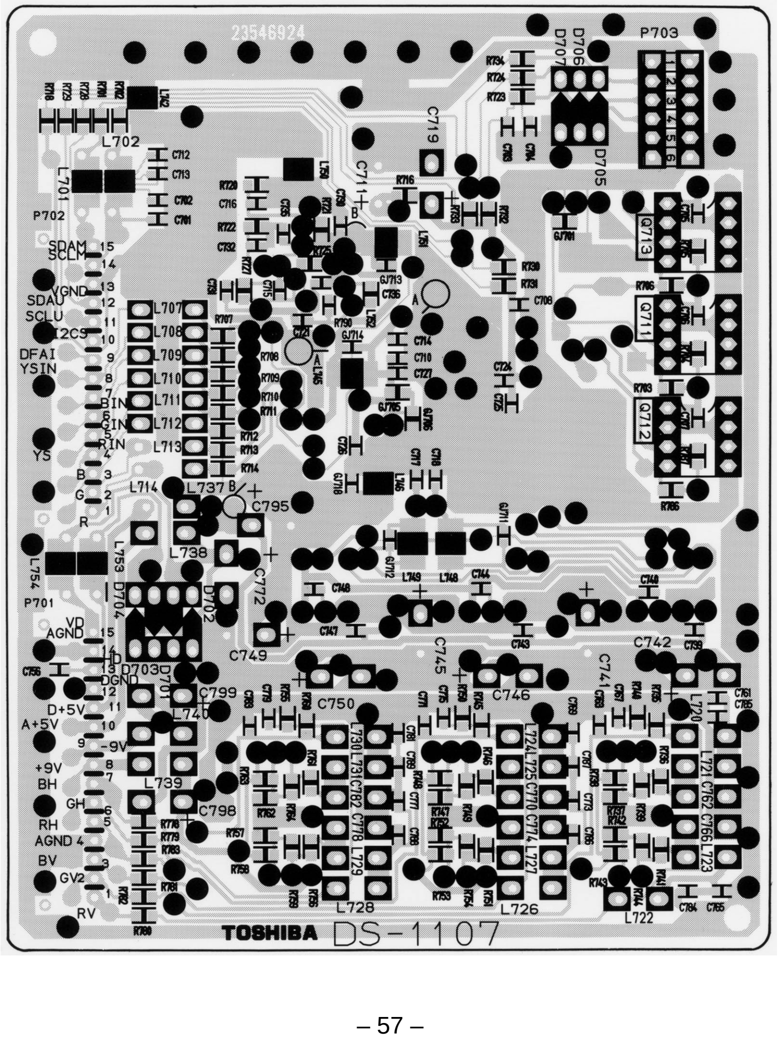
TEXT-P2 BOARD PD0267A

BOTTOM (FOIL) SIDE


RT32
RT31
RT33
CT06
LT03
QT08
RT42
RT26
CT08
CT05
RT44
CT19
XT01
CT11
CT09
RT24
RT27
CT23
LT04
CT10
RT06
RT03
LT12
RT14
RT04
GT01
QT03
CT01
LT07
LT08
CT12
CT02
LT06
QT05
CT03
CT21
CT04
RT19
QT15
QT13
QT14
QT12
QT04
15 14 13 12 11 9 8 7 4 3 2 1
10
6
5
PT01
R-1786
TOSHIBA

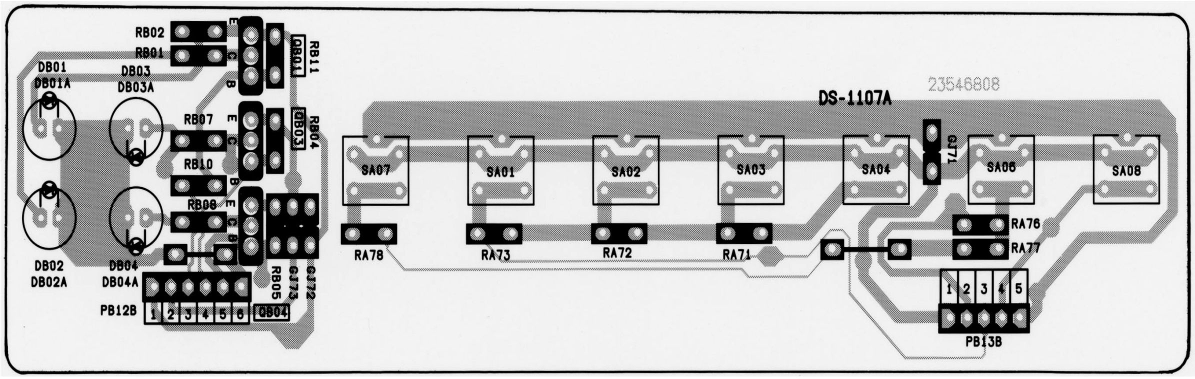
D-CONVER BOARD PD0382B

BOTTOM (FOIL) SIDE


23546924
D706
D707
P703
D705
L702
L701
P702
C719
C711
SDAM
SCLM
VGND
SDAU
SCLU
I2CS
DFAI
YSIN
L707
L708
L709
L710
L711
L712
L713
BIN
GIN
RIN
YS
B
G
R
L714
L737
C795
L738
Q713
Q711
Q712
L754
L753
D704
D702
C772
P701
VD
AGND
D703
D701
DGND
D+5V
A+5V
-9V
+9V
BH
GH
RH
AGND
BV
GV2
RV
L740
C799
C749
C745
C746
C742
C741
C750
L720
L730
L731
C782
C778
L729
L724
L725
C770
C774
L727
L721
C762
C766
L723
L739
C798
L728
L726
L722
TOSHIBA
DS-1107

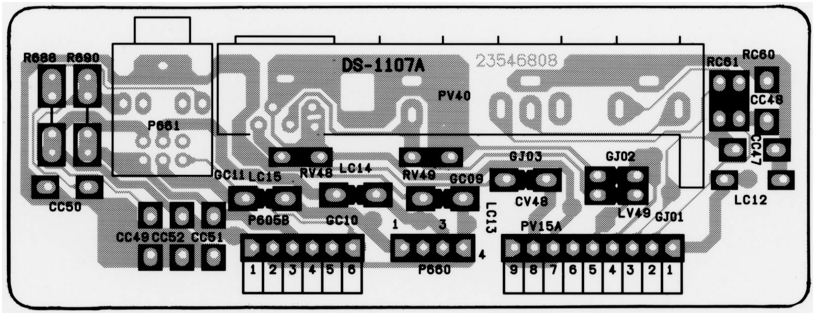
FRONT IN BOARD PD0208B-1

BOTTOM (FOIL) SIDE


RB02
RB01
RB11
QB01
DB01
DB01A
DB03
DB03A
RB07
RB04
QB03
RB10
RB06
DB02
DB02A
DB04
DB04A
RB05
GJ73
GJ72
PB12B
1 2 3 4 5 6
QB04
DS-1107A
23546808
SA07
SA01
SA02
SA03
SA04
GJ71
SA06
SA08
RA78
RA73
RA72
RA71
RA76
RA77
1 2 3 4 5
PB13B

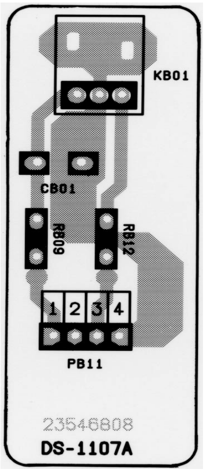
KEY-IND BOARD PD0208B-2

BOTTOM (FOIL) SIDE


RC88
RC90
DS-1107A
23546808
RC61
RC60
CC48
PV40
P661
CC47
GC11
LC15
RV48
LC14
RV49
GC09
GJ03
GJ02
CV48
LC12
CC50
LC13
LV49
GJ01
CC49
CC52
CC51
P605B
GC10
1
3
PV15A
4
P660
1 2 3 4 5 6
9 8 7 6 5 4 3 2 1

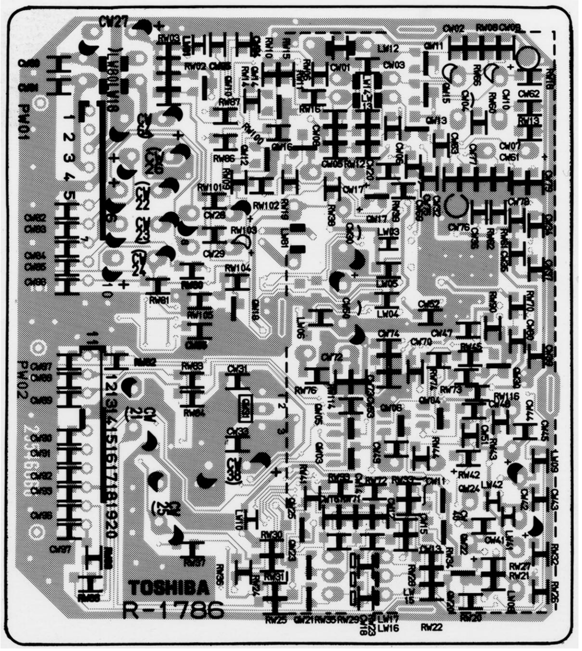
RMT IN BOARD PD0208B-3

BOTTOM (FOIL) SIDE


KB01
CB01
RB09
RB12
1 2 3 4
PB11
23546808
DS-1107A

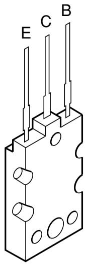
ED WACK BOARD PB8892B

BOTTOM (FOIL) SIDE

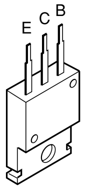

CW27
PW01
1 2 3 4 5
CW02
LW12
CW03
CW01
CW13
CW07
CW61
CW76
CW72
LW04
CW74
CW70
CW47
PW02
12 13 14 15 16 17 18 19 20
CW31
CW32
CW33
CW45
CW44
CW41
CW42
CW43
RW21
RW22
RW25
RW27
LW16
LW17
TOSHIBA
R-1786

TERMINAL VIEW OF TRANSISTORS

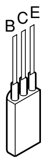
① 2SD2253
(old)
2SC5243



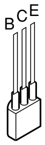
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



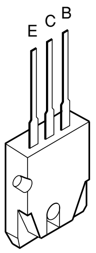
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



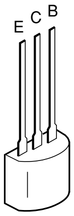
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



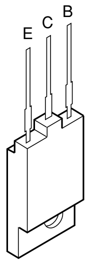
⑤ 2SA1788



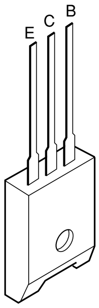
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



THIS PAGE IS
INTENTIONALLY LEFT
BLANK.

SCHEMATIC DIAGRAM

MODEL : 42PW23P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

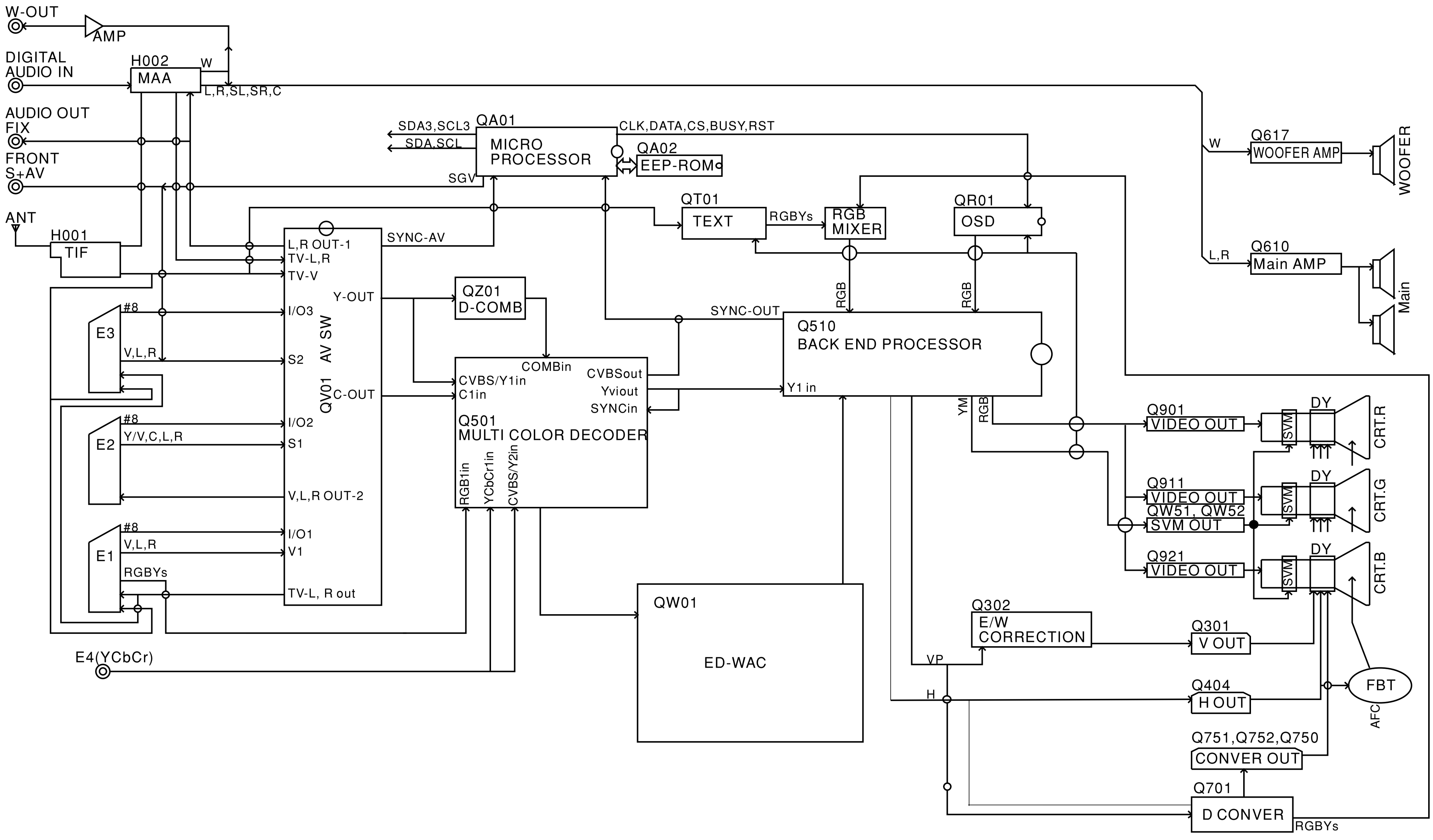
NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt
   10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —+||— Electrolytic capacitor —Ⓜ||— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

- SIGNAL
  - OTHERS [SHEET-1]........ 1/15
  - M-CON [SHEET-2]........ 2/15
  - AUDIO [SHEET-3]........ 3/15
  - AV [SHEET-4]........ 4/15
  - TUNER / IF / MA [SHEET-5]........ 5/15
  - BEP [SHEET-6]........ 6/15
  - MCD [SHEET-7]........ 7/15
- POWER 8/15
- DEF / CONV
  - DEF [SHEET-1]........ 9/15
  - CONV [SHEET-2]...... 10/15
- CRT-D / SVM 11/15
- D-CONVER 12/15
- ED-WAC 13/15
- TEXT-P2 .... 14/15
- FRONT-IN RMT-IN 15/15

CIRCUIT BLOCK DIAGRAM


W-OUT
AMP
DIGITAL AUDIO IN
H002
MAA
W
L,R,SL,SR,C
AUDIO OUT FIX
FRONT S+AV
ANT
H001
TIF
SDA3,SCL3
SDA,SCL
QA01
MICRO PROCESSOR
SGV
CLK,DATA,CS,BUSY,RST
QA02
EEP-ROM
QT01
TEXT
RGBYs
RGB MIXER
QR01
OSD
RGB
RGB
W
Q617
WOOFER AMP
WOOFER
L,R
Q610
Main AMP
Main
L,R OUT-1
TV-L,R
TV-V
SYNC-AV
Y-OUT
I/O3
S2
AV SW
QV01
C-OUT
I/O2
S1
V,L,R OUT-2
I/O1
V1
TV-L, R out
#8
E3
V,L,R
#8
E2
Y/V,C,L,R
#8
E1
V,L,R
RGBYs
E4(YCbCr)
QZ01
D-COMB
COMBin
CVBS/Y1in
C1in
CVBSout
Yviout
SYNCin
Q501
MULTI COLOR DECODER
RGB1in
YCbCr1in
CVBS/Y2in
SYNC-OUT
Q510
BACK END PROCESSOR
Y1 in
YM
RGB
QW01
ED-WAC
Q901
VIDEO OUT
Q911
VIDEO OUT
QW51, QW52
SVM OUT
Q921
VIDEO OUT
SVM
DY
CRT.R
CRT.G
CRT.B
Q302
E/W CORRECTION
VP
H
Q301
V OUT
Q404
H OUT
FBT
AFC
Q751,Q752,Q750
CONVER OUT
Q701
D CONVER
RGBYs

SPECIFICATIONS

Rated voltage		AC 220 V – 240 V, 50/60 Hz				
Dimensions (Width × Height × Depth)		1004 mm × 1161 mm × 415 mm				
Mass		50.5 kg				
Screen size		Type 42				
Television system (Aerial input)	Channel coverage	**System**	**Channel**	**VHF**	**UHF**	**CATV**
		PAL B/G	CCIR	2 – 12	21 – 69	X ~ Z+2, S1 ~ S41
		PAL I	UK	—	21 – 69	—
		SECAM L	CCIR	∗	21 – 69	∗ VHF : B-C ; 1-6, B-Q, 71-86
		SECAM D/K	OIRT	1 – 12	21 – 69	X1 ~ X19
	Special RF signal	**Colour system**	**Sound system**			
		4.43NTSC	5.5/6.0/6.5 MHz			
		PAL 60Hz	5.5/6.0/6.5 MHz			
Colour system		PAL/SECAM/4.43NTSC/3.58NTSC				
Sound output		14 W + 14 W				
Accessories		• Remote control unit × 1 • Battery (R03, AAA) × 2				

* Please refer to owner's manual in detail.

– END –

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 42PW23P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

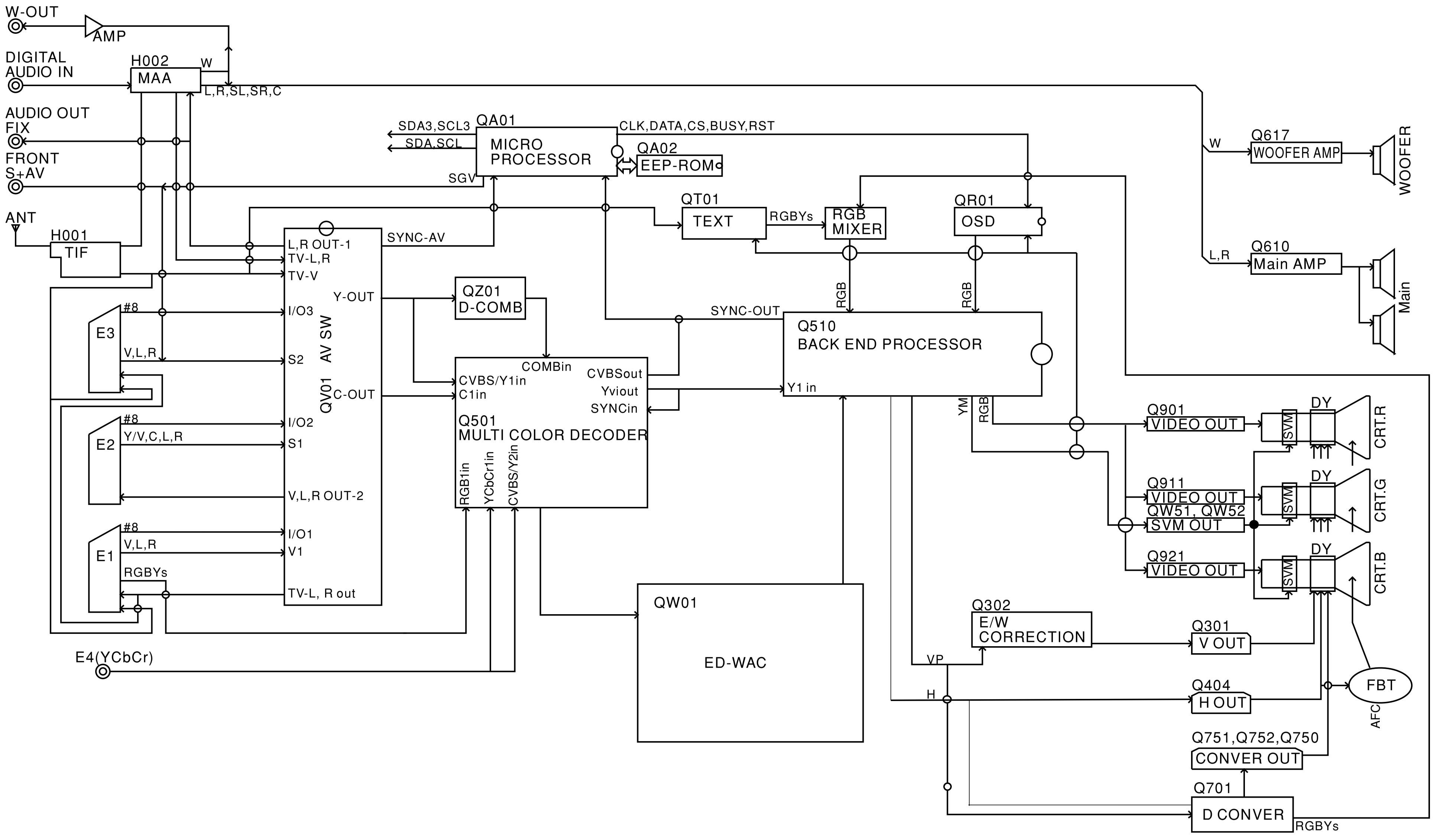
NOTE:

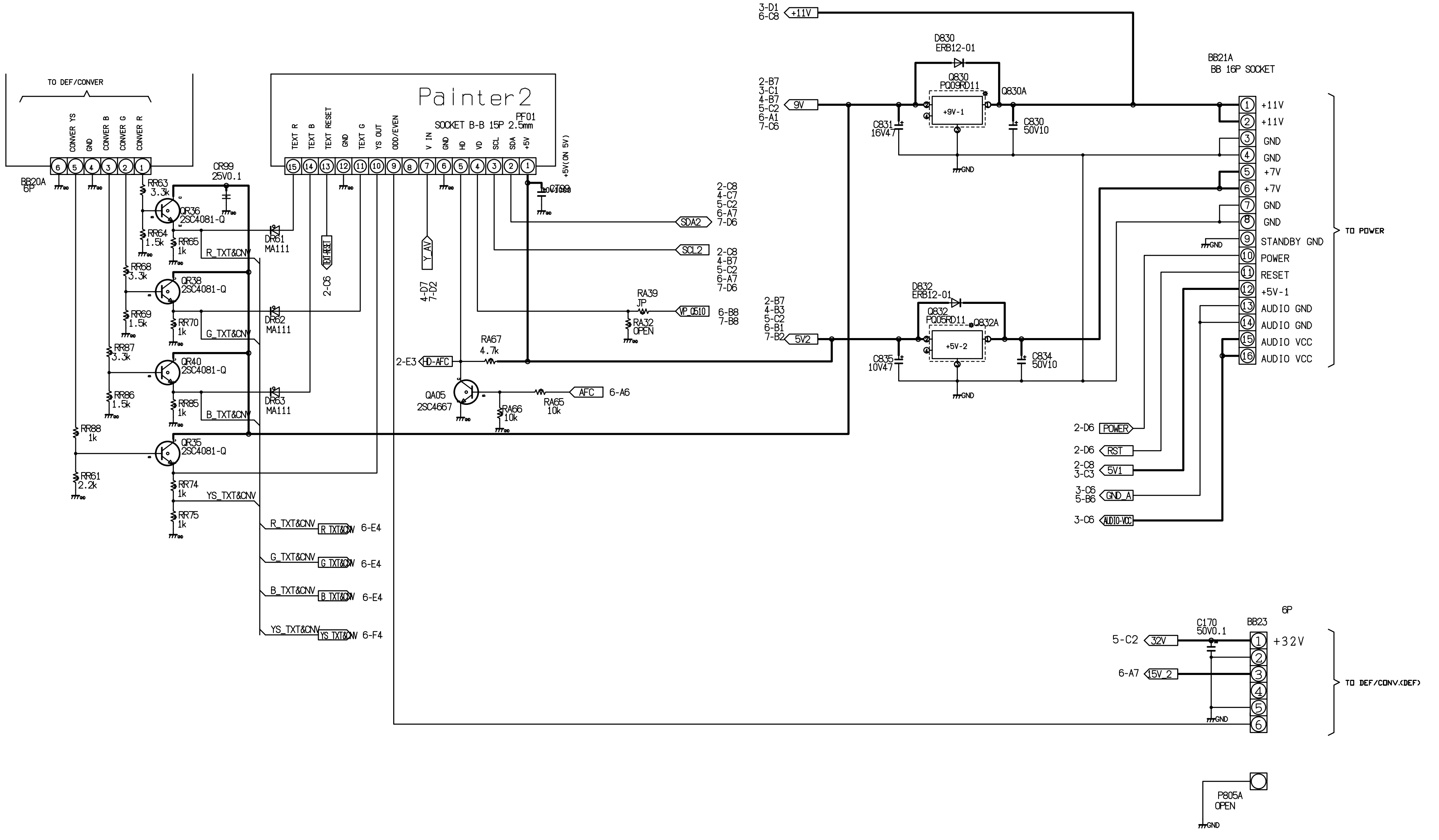
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —+||— Electrolytic capacitor —Ⓜ||— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

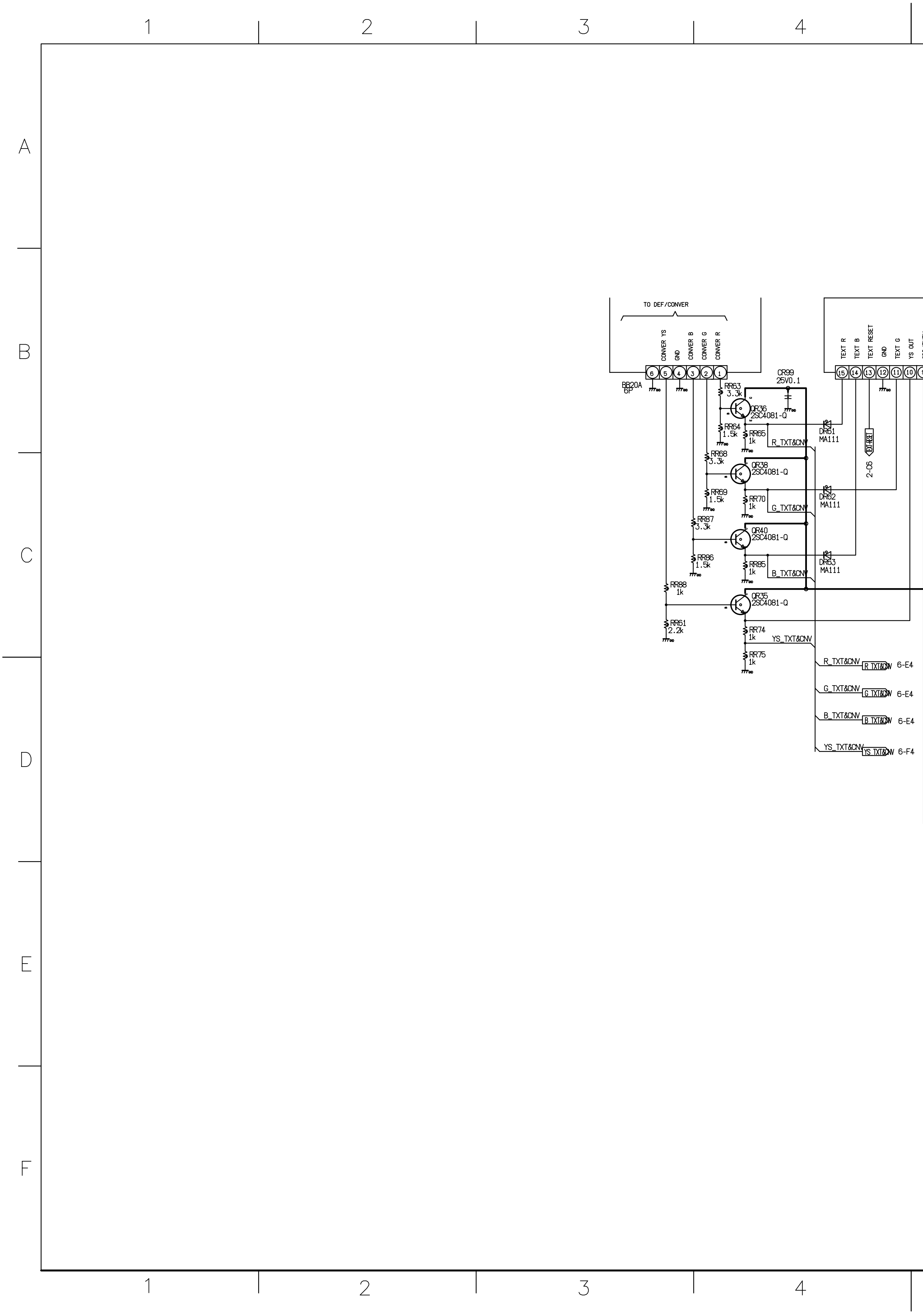
- SIGNAL
  - OTHERS [SHEET-1] 1/15
  - M-CON [SHEET-2] 2/15
  - AUDIO [SHEET-3] 3/15
  - AV [SHEET-4] 4/15
  - TUNER / IF / MA [SHEET-5] 5/15
  - BEP [SHEET-6] 6/15
  - MCD [SHEET-7] 7/15
- POWER 8/15
- DEF / CONV
  - DEF [SHEET-1] 9/15
  - CONV [SHEET-2] 10/15
- CRT-D / SVM 11/15
- D-CONVER 12/15
- ED-WAC 13/15
- TEXT-P2 .... 14/15
- FRONT-IN RMT-IN 15/15

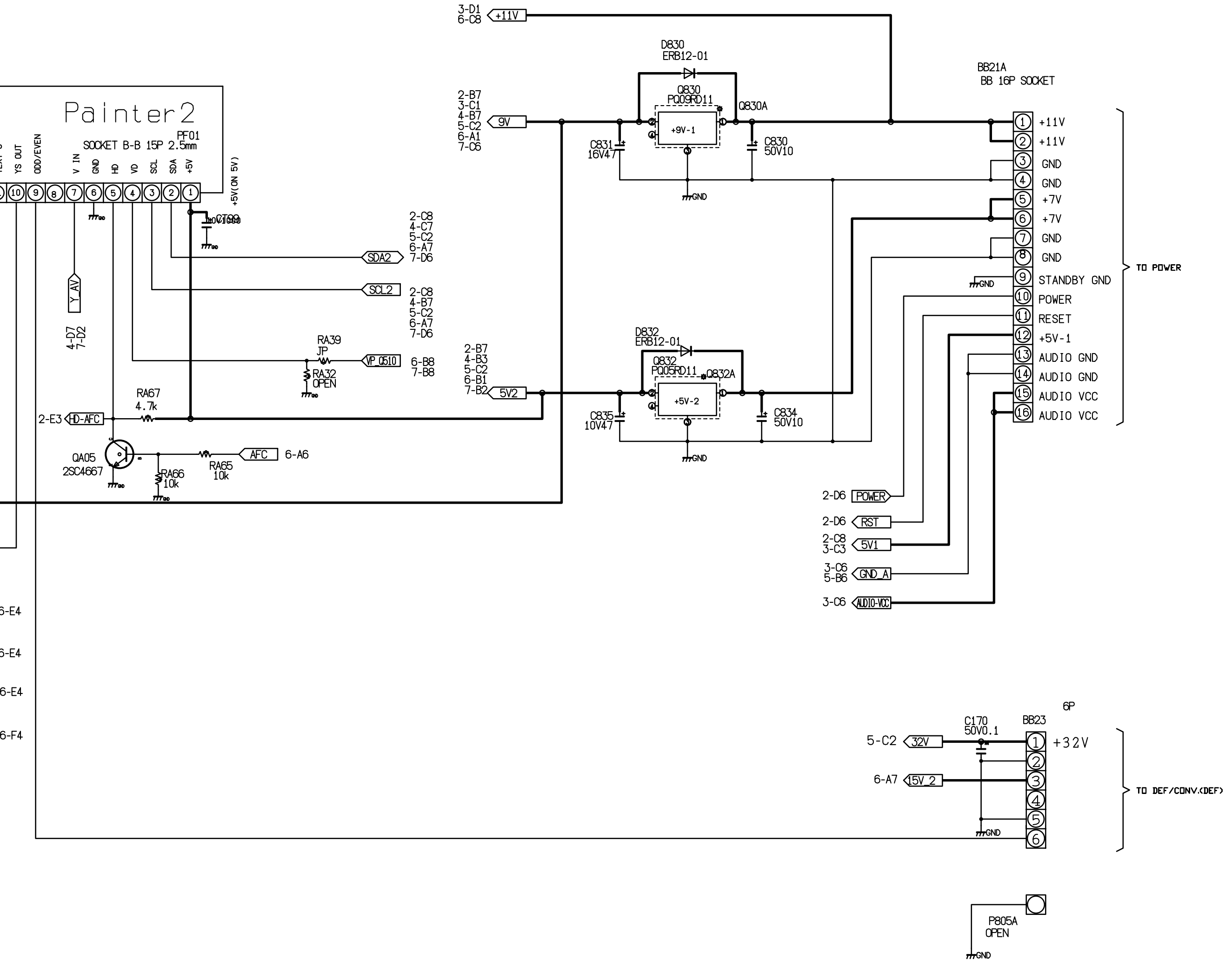
CIRCUIT BLOCK DIAGRAM


W-OUT
AMP
DIGITAL AUDIO IN
H002
MAA
W
L,R,SL,SR,C
AUDIO OUT FIX
FRONT S+AV
ANT
H001
TIF
SDA3,SCL3
SDA,SCL
QA01
MICRO PROCESSOR
SGV
CLK,DATA,CS,BUSY,RST
QA02
EEP-ROM
QT01
TEXT
RGBYs
RGB MIXER
QR01
OSD
RGB
RGB
SYNC-AV
L,R OUT-1
TV-L,R
TV-V
Y-OUT
I/O3
S2
AV SW
QV01
C-OUT
I/O2
S1
V,L,R OUT-2
I/O1
V1
TV-L, R out
E3
#8
V,L,R
E2
#8
Y/V,C,L,R
E1
#8
V,L,R
RGBYs
E4(YCbCr)
QZ01
D-COMB
COMBin
CVBS/Y1in
C1in
CVBSout
Yviout
SYNCin
Q501
MULTI COLOR DECODER
RGB1in
YCbCr1in
CVBS/Y2in
SYNC-OUT
Q510
BACK END PROCESSOR
Y1 in
YM
RGB
QW01
ED-WAC
VP
H
Q302
E/W CORRECTION
Q301
V OUT
Q404
H OUT
Q751,Q752,Q750
CONVER OUT
Q701
D CONVER
RGBYs
FBT
AFC
Q901
VIDEO OUT
Q911
VIDEO OUT
QW51, QW52
SVM OUT
Q921
VIDEO OUT
SVM
SVM
SVM
DY
DY
DY
CRT.R
CRT.G
CRT.B
W
Q617
WOOFER AMP
WOOFER
L,R
Q610
Main AMP
Main


TO DEF/CONVER
CONVER YS
GND
CONVER B
CONVER G
CONVER R
BB20A
6P
Painter2
SOCKET B-B 15P 2.5mm
PF01
TEXT R
TEXT B
TEXT RESET
GND
TEXT G
YS OUT
ODD/EVEN
V IN
GND
HD
VD
SCL
SDA
+5V
+5V(ON 5V)
CR99
25V0.1
RR63
3.3k
QR36
2SC4081-Q
RR64
1.5k
RR65
1k
R_TXT&CNV
DR51
MA111
RR68
3.3k
QR38
2SC4081-Q
RR69
1.5k
RR70
1k
G_TXT&CNV
DR52
MA111
RR87
3.3k
QR40
2SC4081-Q
RR86
1.5k
RR85
1k
B_TXT&CNV
DR53
MA111
RR88
1k
QR35
2SC4081-Q
RR61
2.2k
RR74
1k
YS_TXT&CNV
RR75
1k
R_TXT&CNV
R TXT&CNV 6-E4
G_TXT&CNV
G TXT&CNV 6-E4
B_TXT&CNV
B TXT&CNV 6-E4
YS_TXT&CNV
YS TXT&CNV 6-F4
TXT RESET
2-D5
Y_AV
4-D7
7-D2
CF999
2-C8
4-C7
5-C2
6-A7
7-D6
SDA2
2-C8
4-B7
5-C2
6-A7
7-D6
SCL2
RA39
JP
VP_QS10
6-B8
7-B8
RA32
OPEN
2-E3
HD-AFC
RA67
4.7k
QA05
2SC4667
RA66
10k
RA65
10k
AFC
6-A6
3-D1
6-C8
+11V
2-B7
3-C1
4-B7
5-C2
6-A1
7-C5
9V
D830
ERB12-01
Q830
PQ09RD11
Q830A
+9V-1
C831
16V47
C830
50V10
GND
2-B7
4-B3
5-C2
6-B1
7-B2
5V2
D832
ERB12-01
Q832
PQ05RD11
Q832A
+5V-2
C835
10V47
C834
50V10
GND
BB21A
BB 16P SOCKET
① +11V
② +11V
③ GND
④ GND
⑤ +7V
⑥ +7V
⑦ GND
⑧ GND
⑨ STANDBY GND
⑩ POWER
⑪ RESET
⑫ +5V-1
⑬ AUDIO GND
⑭ AUDIO GND
⑮ AUDIO VCC
⑯ AUDIO VCC
TO POWER
GND
2-D6 POWER
2-D6 RST
2-C8
3-C3
5V1
3-C6
5-B6
GND_A
3-C6 AUDIO-VCC
6P
C170
50V0.1
BB23
5-C2 32V
① +32V
6-A7 15V_2
②
③
④
⑤
⑥
GND
TO DEF/CONV.(DEF)
P805A
OPEN
GND

SIGNAL(OTHERS)
42PW23P
[SHEET-1]

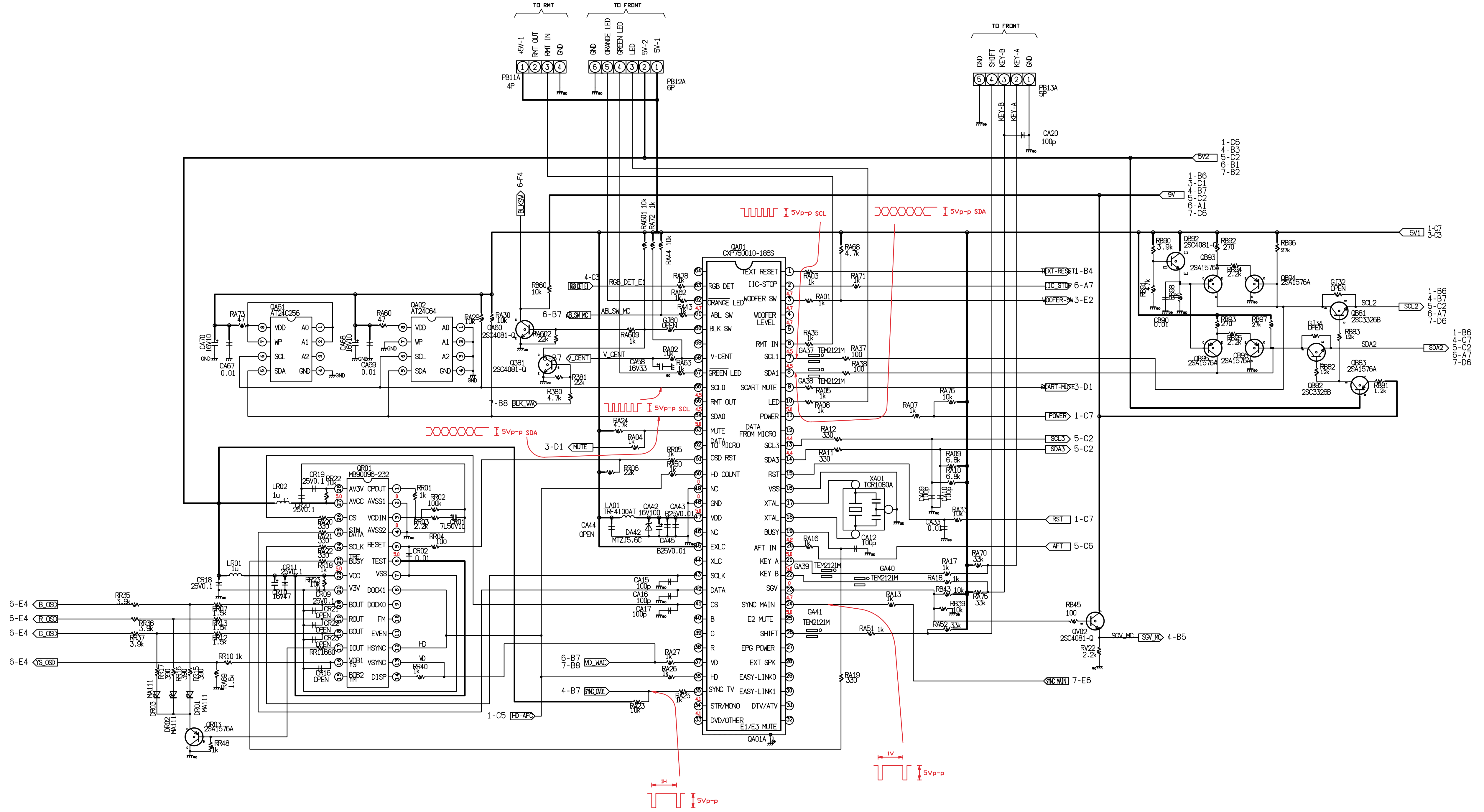

1
2
3
4
A
B
C
D
E
F
TO DEF/CONVER
CONVER YS
GND
CONVER B
CONVER G
CONVER R
6
5
4
3
2
1
BB20A
6P
CR99
25V0.1
RR63
3.3k
QR36
2SC4081-Q
RR64
1.5k
RR65
1k
R_TXT&CNV
RR68
3.3k
QR38
2SC4081-Q
RR69
1.5k
RR70
1k
G_TXT&CNV
RR87
3.3k
QR40
2SC4081-Q
RR86
1.5k
RR85
1k
B_TXT&CNV
RR88
1k
QR35
2SC4081-Q
RR61
2.2k
RR74
1k
YS_TXT&CNV
RR75
1k
TEXT R
TEXT B
TEXT RESET
GND
TEXT G
YS OUT
15
14
13
12
11
10
DR61
MA111
TEXT RESET
2-C6
DR62
MA111
DR63
MA111
R_TXT&CNV
R TXT&CNV
6-E4
G_TXT&CNV
G TXT&CNV
6-E4
B_TXT&CNV
B TXT&CNV
6-E4
YS_TXT&CNV
YS TXT&CNV
6-F4



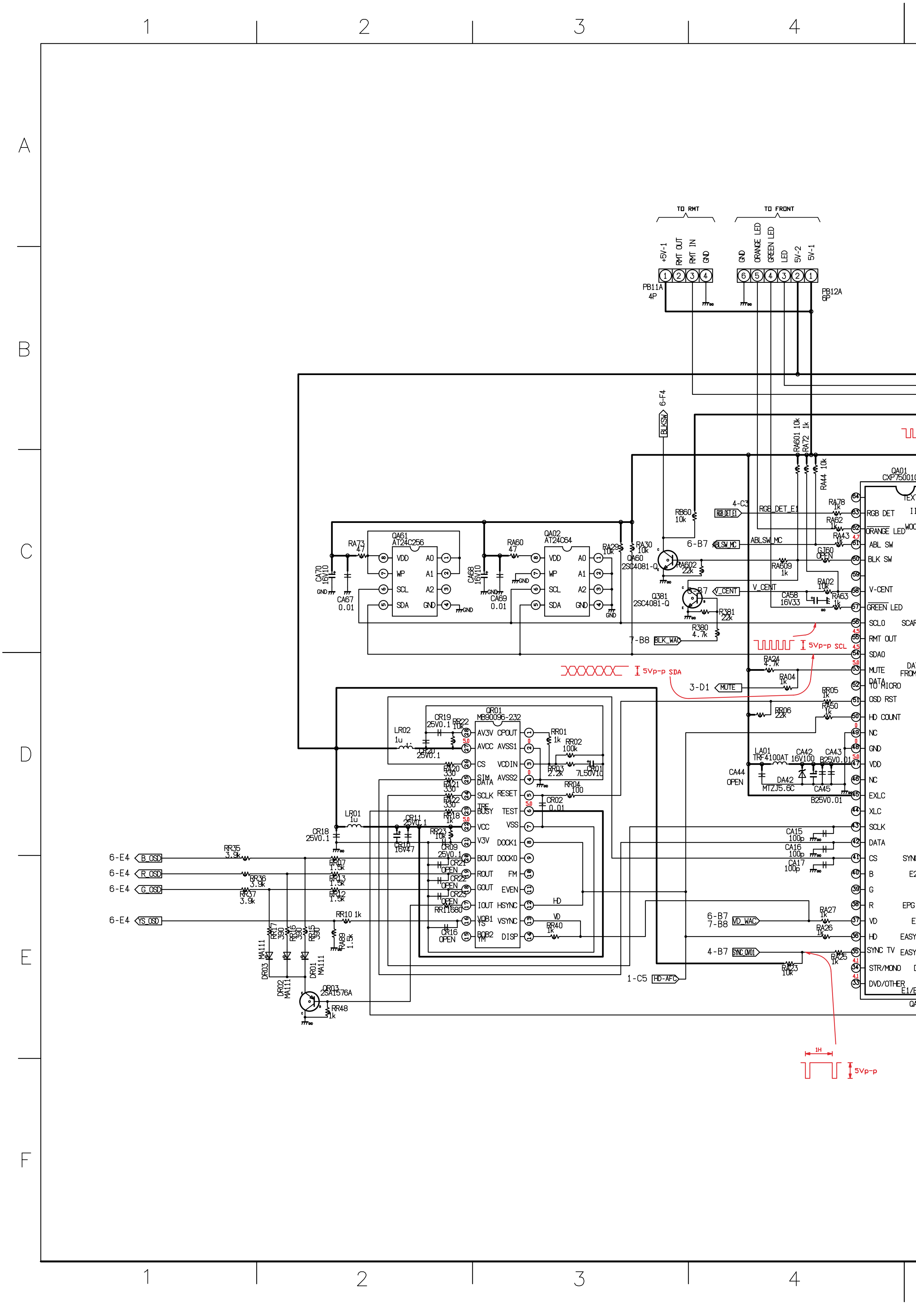
Painter2
SOCKET B-B 15P 2.5mm
PF01
YS OUT
ODD/EVEN
V IN
GND
HD
VD
SCL
SDA
+5V
+5V(ON 5V)
C799
Y_AV
4-D7
7-D2
SDA2
2-C8
4-C7
5-C2
6-A7
7-D6
SCL2
2-C8
4-B7
5-C2
6-A7
7-D6
RA39
JP
RA32
OPEN
VP_0510
6-B8
7-B8
RA67
4.7k
2-E3
HD-AFC
QA05
2SC4667
RA66
10k
RA65
10k
AFC
6-A6
3-D1
6-C8
+11V
D830
ERB12-01
Q830
PQ09RD11
Q830A
2-B7
3-C1
4-B7
5-C2
6-A1
7-C6
9V
+9V-1
C831
16V47
C830
50V10
GND
D832
ERB12-01
Q832
PQ05RD11
Q832A
2-B7
4-B3
5-C2
6-B1
7-B2
5V2
+5V-2
C835
10V47
C834
50V10
GND
BB21A
BB 16P SOCKET
+11V
+11V
GND
GND
+7V
+7V
GND
GND
STANDBY GND
POWER
RESET
+5V-1
AUDIO GND
AUDIO GND
AUDIO VCC
AUDIO VCC
TO POWER
2-D6 POWER
2-D6 RST
2-C8
3-C3 5V1
3-C6
5-B6 GND_A
3-C6 AUDIO-VCC
6-E4
6-E4
6-E4
6-F4
C170
50V0.1
BB23
6P
5-C2 32V
+32V
6-A7 15V_2
GND
TO DEF/CONV.(DEF)
P805A
OPEN
GND
A
B
C
D
E
F

SIGNAL(OTHERS)
42PW23P

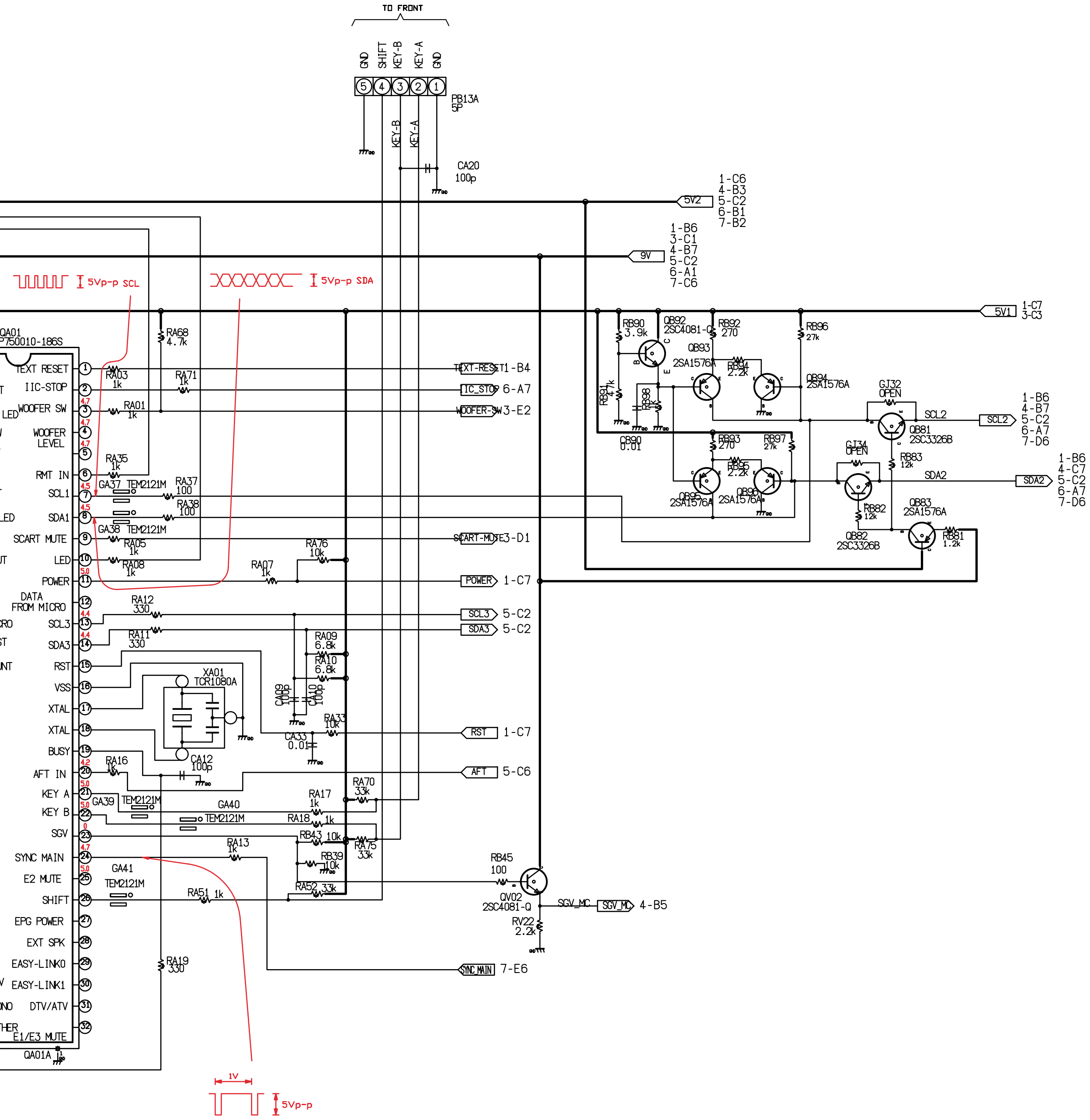
[SHEET-1]


TO RMT
+5V-1
RMT OUT
RMT IN
GND
PB11A 4P
TO FRONT
GND
ORANGE LED
GREEN LED
LED
5V-2
5V-1
PB12A 6P
TO FRONT
GND
SHIFT
KEY-B
KEY-A
GND
PB13A 5P
KEY-B
KEY-A
CA20 100p
5V2
1-C6 4-B3 5-C2 6-B1 7-B2
9V
1-B6 3-C1 4-B7 5-C2 6-A1 7-C6
5V1
1-C7 3-C3
5Vp-p SCL
5Vp-p SDA
QA01 CXP750010-186S
TEXT RESET
IIC-STOP
WOOFER SW
WOOFER LEVEL
RGB DET
ORANGE LED
ABL SW
BLK SW
RMT IN
V-CENT
SCL1
GREEN LED
SDA1
SCL0
SCART MUTE
RMT OUT
LED
SDA0
POWER
MUTE
DATA FROM MICRO
DATA TO MICRO
SCL3
OSD RST
SDA3
HD COUNT
RST
NC
VSS
GND
XTAL
VDD
XTAL
NC
BUSY
EXLC
AFT IN
XLC
KEY A
SCLK
KEY B
DATA
SGV
CS
SYNC MAIN
B
E2 MUTE
G
SHIFT
R
EPG POWER
VD
EXT SPK
HD
EASY-LINK0
SYNC TV
EASY-LINK1
STR/MONO
DTV/ATV
DVD/OTHER
E1/E3 MUTE
QA01A
TEXT-RESET 1-B4
IIC_STOP 6-A7
WOOFER-SW 3-E2
SCART-MUTE 3-D1
POWER 1-C7
SCL3 5-C2
SDA3 5-C2
RST 1-C7
AFT 5-C6
SYNC MAIN 7-E6
SGV_MC
SGV_MC 4-B5
QV02 2SC4081-Q
RB45 100
RV22 2.2k
XA01 TCR1080A
CA09 100p
CA10 100p
CA33 0.01
CA12 100p
GA37 TEM2121M
GA38 TEM2121M
GA39 TEM2121M
GA40 TEM2121M
GA41 TEM2121M
RA68 4.7k
RA71 1k
RA03 1k
RA01 1k
RA35 1k
RA37 100
RA38 100
RA05 1k
RA08 1k
RA07 1k
RA76 10k
RA12 330
RA11 330
RA09 6.8k
RA10 6.8k
RA33 10k
RA16 1k
RA70 33k
RA17 1k
RA18 1k
RB43 10k
RA75 33k
RB39 10k
RA13 1k
RA52 33k
RA51 1k
RA19 330
QA61 AT24C256
QA02 AT24C64
VDD
WP
SCL
SDA
A0
A1
A2
GND
RA73 47
RA60 47
CA70 16V10
CA67 0.01
CA68 16V10
CA69 0.01
RA29 10k
RA30 10k
QA60 2SC4081-Q
RA602 22k
Q381 2SC4081-Q
R380 4.7k
R381 22k
RB60 10k
6-F4
BLK_SW
4-C3
RGB_DET_E1
6-B7
ABL_SW_MC
V_CENT
7-B8
BLK_WAC
3-D1
MUTE
RA501 10k
RA72 1k
RA44 10k
RA78 1k
RA62 1k
RA43 1k
GA50 GREEN
RA609 1k
RA02 10k
RA63 1k
CA58 16V33
RA24 4.7k
RA04 1k
RR05 1k
RR50 1k
RR06 22k
LA01 TRF4100AT
CA42 16V100
CA43 B25V0.01
DA42 MTZJ5.6C
CA45 B25V0.01
CA44 OPEN
CA15 100p
CA16 100p
CA17 100p
6-B7 7-B8
VD_WAC
4-B7
SYNC OUT
RA27 1k
RA26 1k
RA25 1k
RA23 10k
1-C5
HD-AFC
QR01 MB90096-232
AV3V
CPOUT
AVCC
AVSS1
CS
VCOIN
SIN DATA
AVSS2
SCLK
RESET
TRE BUSY
TEST
VCC
VSS
V3V
DOCK1
BOUT
DOCK0
ROUT
FM
GOUT
EVEN
IOUT
HSYNC
YS
VSYNC
VOB2
DISP
HD
VD
CR19 25V0.1
RR22 10k
LR02 1u
CR20 25V0.1
RR01 1k
RR02 100k
RR03 2.2k
CR01 7L50V1U
RR04 100
CR02 0.01
LR01 1u
CR18 25V0.1
CR11 25V0.1
CR10 16V47
RR21 10k
RR18 1k
CR09 25V0.1
RR20 330
RR19 330
RR16 330
CR24 OPEN
CR23 OPEN
CR26 OPEN
CR25 OPEN
RR11 680
CR16 OPEN
RR40 1k
6-E4 B_OSD
6-E4 R_OSD
6-E4 G_OSD
6-E4 YS_OSD
RR35 3.9k
RR36 3.9k
RR37 3.9k
RR07 1.5k
RR13 1.5k
RR12 1.5k
RR10 1k
RR09 1.5k
DR03 MA111
DR02 MA111
DR01 MA111
QR03 2SA1576A
RR48 1k
RB90 3.9k
QB92 2SC4081-Q
RB92 270
QB93 2SA1576A
RB94 2.2k
RB96 27k
QB94 2SA1576A
RB91 1k
RB98
CB90 0.01
RB93 270
RB97 27k
QB95 2SA1576A
RB95 2.2k
QB96 2SA1576A
GJ32 OPEN
QB81 2SC3326B
SCL2
SCL2 1-B6 4-B7 5-C2 6-A7 7-D6
GJ34 OPEN
RB83 12k
SDA2
SDA2 1-B6 4-C7 5-C2 6-A7 7-D6
RB82 12k
QB83 2SA1576A
QB82 2SC3326B
RB81 1.2k
1H
5Vp-p
1V
5Vp-p

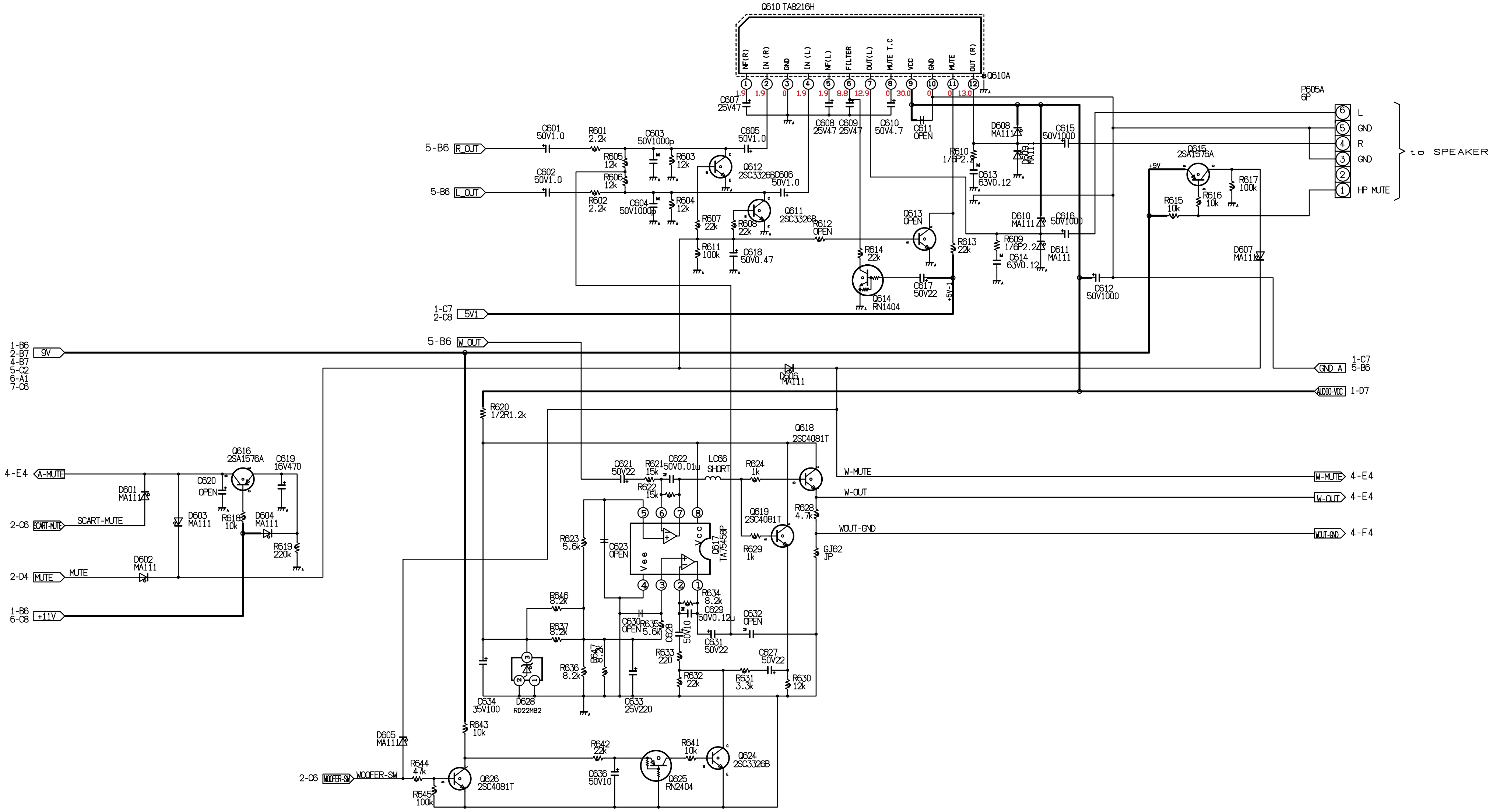
SIGNAL(M-CON)
42PW23P
[SHEET-2]



1
2
3
4
A
B
C
D
E
F
TO RMT
TO FRONT
+5V-1
RMT OUT
RMT IN
GND
GND
ORANGE LED
GREEN LED
LED
5V-2
5V-1
PB11A
4P
PB12A
6P
BLKSW
6-F4
RA601 10k
RA72 1k
RA44 10k
QA01
CXP750010
RB60
10k
4-C3
RGB DET E1
RGB DET
ORANGE LED
ABL SW
BLK SW
V-CENT
GREEN LED
SCL0
RMT OUT
SDA0
MUTE
DATA TO MICRO
OSD RST
HD COUNT
NC
GND
VDD
NC
EXLC
XLC
SCLK
DATA
CS
B
G
R
VD
HD
SYNC TV
STR/MONO
DVD/OTHER
RA78
1k
RA62
1k
RA43
1k
GJ60
OPEN
ABLSW_MC
6-B7
BLSW_MC
RA609
1k
RA602
22k
QA60
2SC4081-Q
RA29
10k
RA30
10k
V_CENT
RA02
10k
CA58
16V33
RA63
1k
Q381
2SC4081-Q
R381
22k
R380
4.7k
7-B8
BLK_WAC
5Vp-p SCL
5Vp-p SDA
RA24
4.7k
RA04
1k
3-D1
MUTE
RR05
1k
RB06
22k
RA50
1k
QA61
AT24C256
RA73
47
CA70
16V10
CA67
0.01
VDD
WP
SCL
SDA
A0
A1
A2
GND
QA02
AT24C64
RA60
47
CA68
16V10
CA69
0.01
LA01
TRF4100AT
CA42
16V100
CA43
B25V0.01
DA42
MTZJ5.6C
CA45
B25V0.01
CA44
OPEN
CA15
100p
CA16
100p
CA17
100p
QR01
MB90096-232
AV3V
AVCC
CS
SIM DATA
SCLK
TRE BUSY
VCC
V3V
BOUT
ROUT
GOUT
IOUT
VOB1 YS
BOB2 YM
CPOUT
AVSS1
VCDIN
AVSS2
RESET
TEST
VSS
DOCK1
DOCK0
FM
EVEN
HSYNC
VSYNC
DISP
CR19
25V0.1
RR22
10k
LR02
1u
CR20
25V0.1
RR01
1k
RR02
100k
RR03
2.2k
CR01
7L50V10
RR04
100
CR02
0.01
RA20
330
RA21
330
RA22
330
RR18
1k
RR23
10k
CR09
25V0.1
CR21
OPEN
CR22
OPEN
CR23
OPEN
RR11
680
CR16
OPEN
LR01
1u
CR18
25V0.1
CR11
25V0.1
CR10
16V47
HD
VD
RR40
1k
6-B7
7-B8
VD_WAC
RA27
1k
RA26
1k
4-B7
SYNC_DV01
RA25
1k
RA23
10k
1-C5
HD-AFC
6-E4
B_OSD
R_OSD
G_OSD
YS_OSD
RR35
3.9k
RR36
3.9k
RR37
3.9k
RR07
1.5k
RR13
1.5k
RR12
1.5k
RR10 1k
RR89
1.5k
RR17
390
RR16
390
RR15
390
DR03
MA111
DR02
MA111
DR01
MA111
QR03
2SA1576A
RR48
1k
1H
5Vp-p

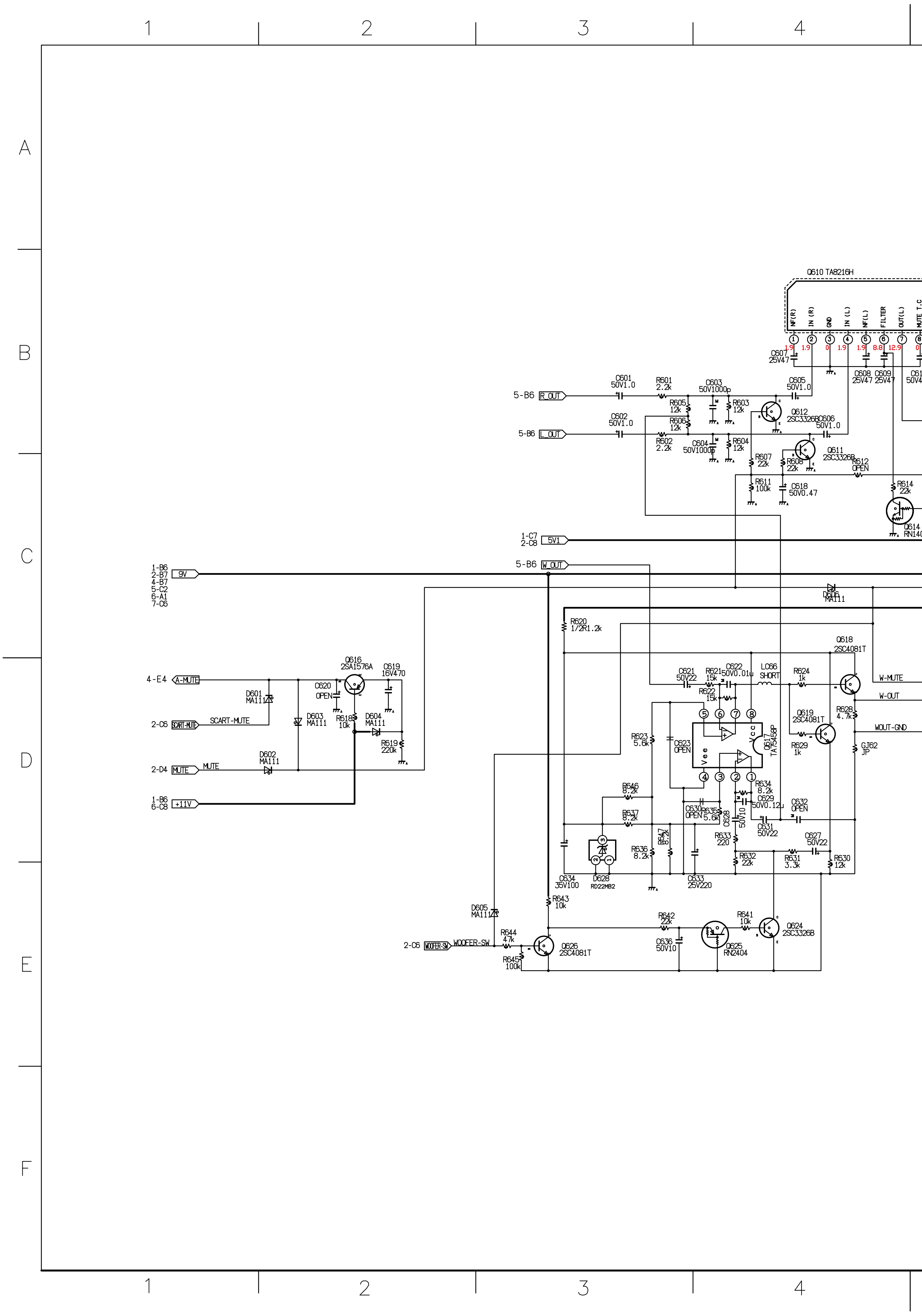

TO FRONT
GND
SHIFT
KEY-B
KEY-A
GND
PB13A
5P
KEY-B
KEY-A
CA20
100p
5V2
1-C6
4-B3
5-C2
6-B1
7-B2
9V
1-B6
3-C1
4-B7
5-C2
6-A1
7-C6
5Vp-p SCL
5Vp-p SDA
5V1
1-C7
3-C3
QA01
P750010-186S
TEXT RESET
IIC-STOP
WOOFER SW
WOOFER LEVEL
RMT IN
SCL1
SDA1
SCART MUTE
LED
POWER
DATA FROM MICRO
SCL3
SDA3
RST
VSS
XTAL
XTAL
BUSY
AFT IN
KEY A
KEY B
SGV
SYNC MAIN
E2 MUTE
SHIFT
EPG POWER
EXT SPK
EASY-LINK0
EASY-LINK1
DTV/ATV
E1/E3 MUTE
QA01A
RA68
4.7k
RA03
1k
RA71
1k
RA01
1k
RA35
1k
GA37
TEM2121M
RA37
100
RA38
100
GA38
TEM2121M
RA05
1k
RA08
1k
RA07
1k
RA76
10k
RA12
330
RA11
330
RA09
6.8k
RA10
6.8k
XA01
TCR1080A
CA09
100p
CA10
100p
RA33
10k
CA33
0.01
RA16
1k
CA12
100p
RA70
33k
RA17
1k
GA39
TEM2121M
GA40
TEM2121M
RA18
1k
RB43
10k
RA75
33k
RA13
1k
RB39
10k
GA41
TEM2121M
RA51
1k
RA52
33k
RA19
330
RB45
100
QV02
2SC4081-Q
SGV_MC
4-B5
RV22
2.2k
SYNC MAIN
7-E6
TEXT-RESET
1-B4
IIC_STOP
6-A7
WOOFER-SW
3-E2
SCART-MUTE
3-D1
POWER
1-C7
SCL3
5-C2
SDA3
5-C2
RST
1-C7
AFT
5-C6
1V
5Vp-p
RB90
3.9k
QB92
2SC4081-Q
RB92
270
QB93
2SA1576A
RB94
2.2k
RB96
27k
QB94
2SA1576A
RB91
4.7k
RB98
CB90
0.01
GJ32
OPEN
SCL2
QB81
2SC3326B
SCL2
1-B6
4-B7
5-C2
6-A7
7-D6
RB93
270
RB97
27k
GJ34
OPEN
RB83
12k
SDA2
SDA2
1-B6
4-C7
5-C2
6-A7
7-D6
RB95
2.2k
QB95
2SA1576A
QB96
2SA1576A
RB82
12k
QB83
2SA1576A
QB82
2SC3326B
RB81
1.2k

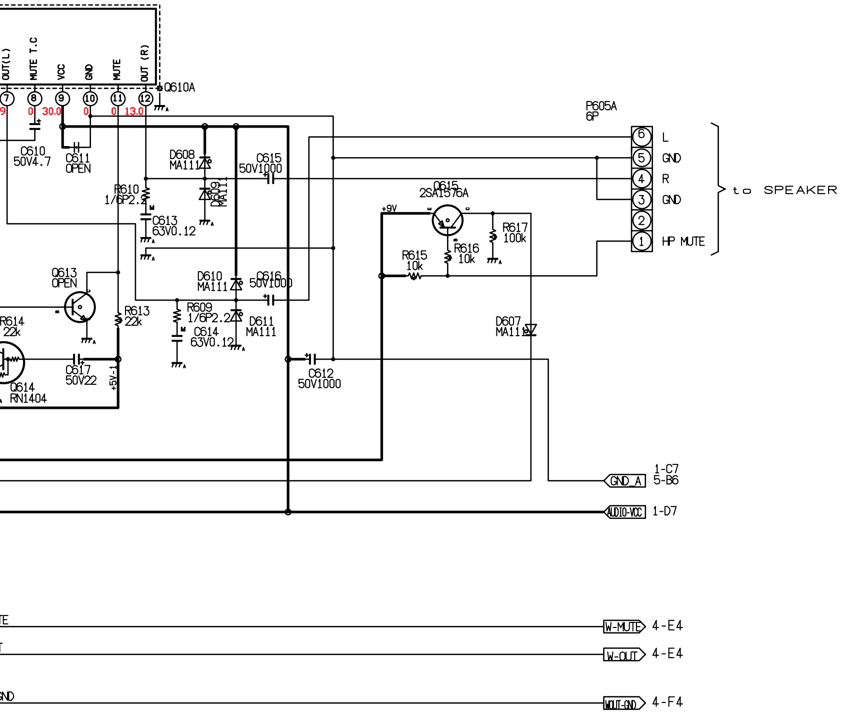
SIGNAL(M-CON)
42PW23P
[SHEET-2]


Q610 TA8216H
NF(R)
IN (R)
GND
IN (L)
NF(L)
FILTER
OUT(L)
MUTE T.C
VCC
GND
MUTE
OUT (R)
Q610A
P605A
6P
L
GND
R
GND
HP MUTE
to SPEAKER
5-B6 R_OUT
5-B6 L_OUT
1-C7
2-C8 5V1
5-B6 W_OUT
1-B6
2-B7
4-B7
5-C2
6-A1
7-C5 9V
4-E4 A-MUTE
2-C5 SCART-MUTE
2-D4 MUTE
1-B6
6-C8 +11V
2-C5 WOOFER-SW
GND_A 1-C7 5-B6
AUDIO-VCC 1-D7
W-MUTE 4-E4
W-OUT 4-E4
WOUT-GND 4-F4
C601 50V1.0
C602 50V1.0
R601 2.2k
R602 2.2k
C603 50V1000p
C604 50V1000p
R603 12k
R604 12k
R605 12k
R606 12k
C605 50V1.0
C606 50V1.0
Q612 2SC3326B
Q611 2SC3326B
C607 25V47
C608 25V47
C609 25V47
C610 50V4.7
C611 OPEN
R607 22k
R608 22k
R611 100k
C618 50V0.47
R612 OPEN
R614 22k
Q614 RN1404
C617 50V22
Q613 OPEN
R613 22k
R610 1/6P2.2
C613 63V0.12
D608 MA111
D609 MA111
C615 50V1000
D610 MA111
C616 50V1000
R609 1/6P2.2
C614 63V0.12
D611 MA111
C612 50V1000
Q615 2SA1576A
R615 10k
R616 10k
R617 100k
D607 MA111
D606 MA111
R620 1/2R1.2k
Q616 2SA1576A
C619 16V470
C620 OPEN
D601 MA111
D603 MA111
R618 10k
D604 MA111
R619 220k
D602 MA111
C621 50V22
R621 15k
R622 15k
C622 50V0.01u
LC66 SHORT
R624 1k
Q618 2SC4081T
R628 4.7k
Q619 2SC4081T
R629 1k
GJ62 JP
R623 5.6k
C623 OPEN
Q617 TA7545P
Vcc
Vee
R634 8.2k
C629 50V0.12u
C632 OPEN
R646 8.2k
R637 8.2k
C630 OPEN
R635 5.6k
C628 50V10
C631 50V22
C627 50V22
R647 8.2k
R636 8.2k
R633 220
R632 22k
R631 3.3k
R630 12k
D626 RD22MB2
C634 35V100
C633 25V220
R643 10k
D605 MA111
R644 47k
R645 100k
Q626 2SC4081T
R642 22k
C636 50V10
Q625 RN2404
R641 10k
Q624 2SC3326B

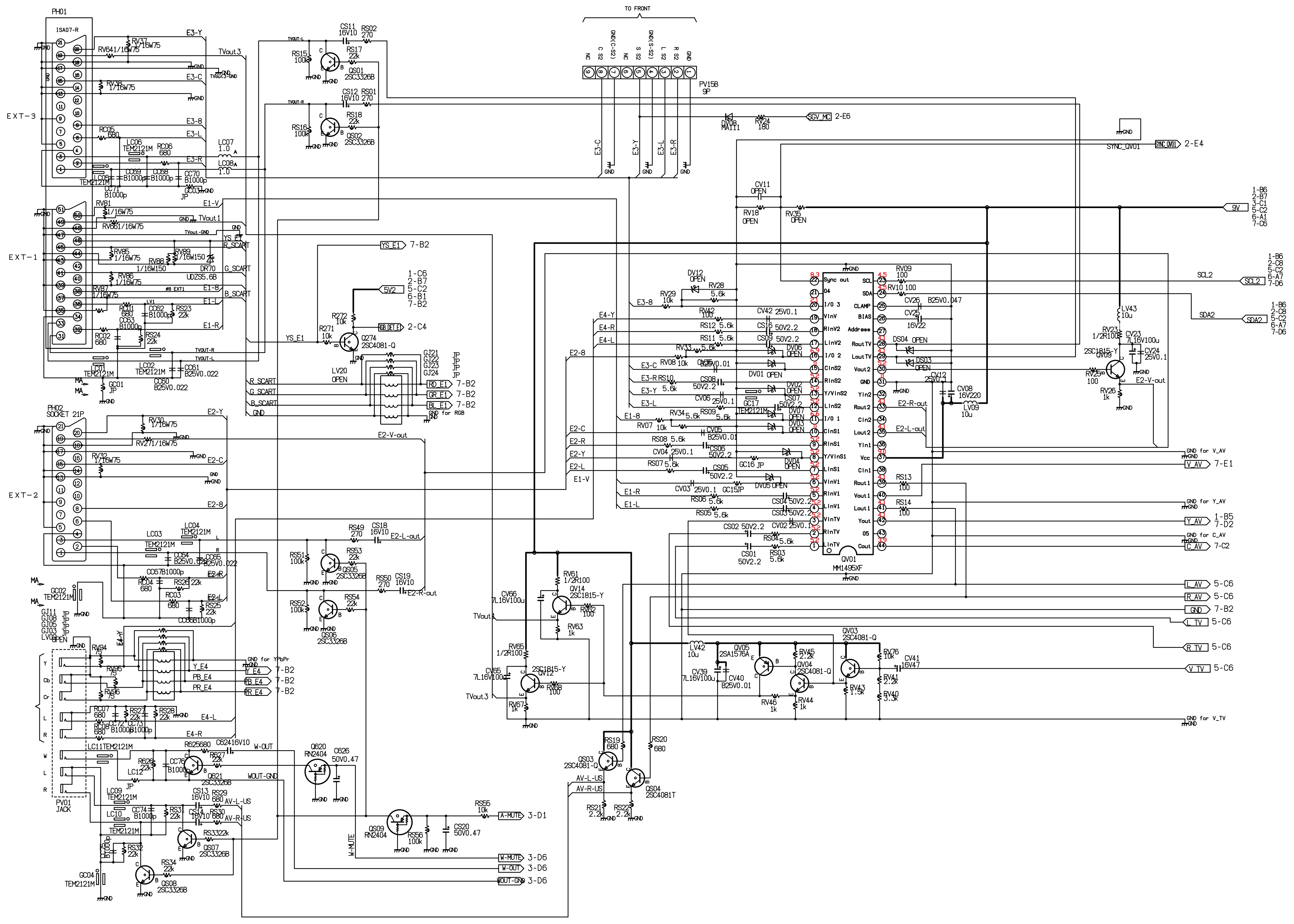
SIGNAL(AUDIO)
42PW23P

[SHEET-3]

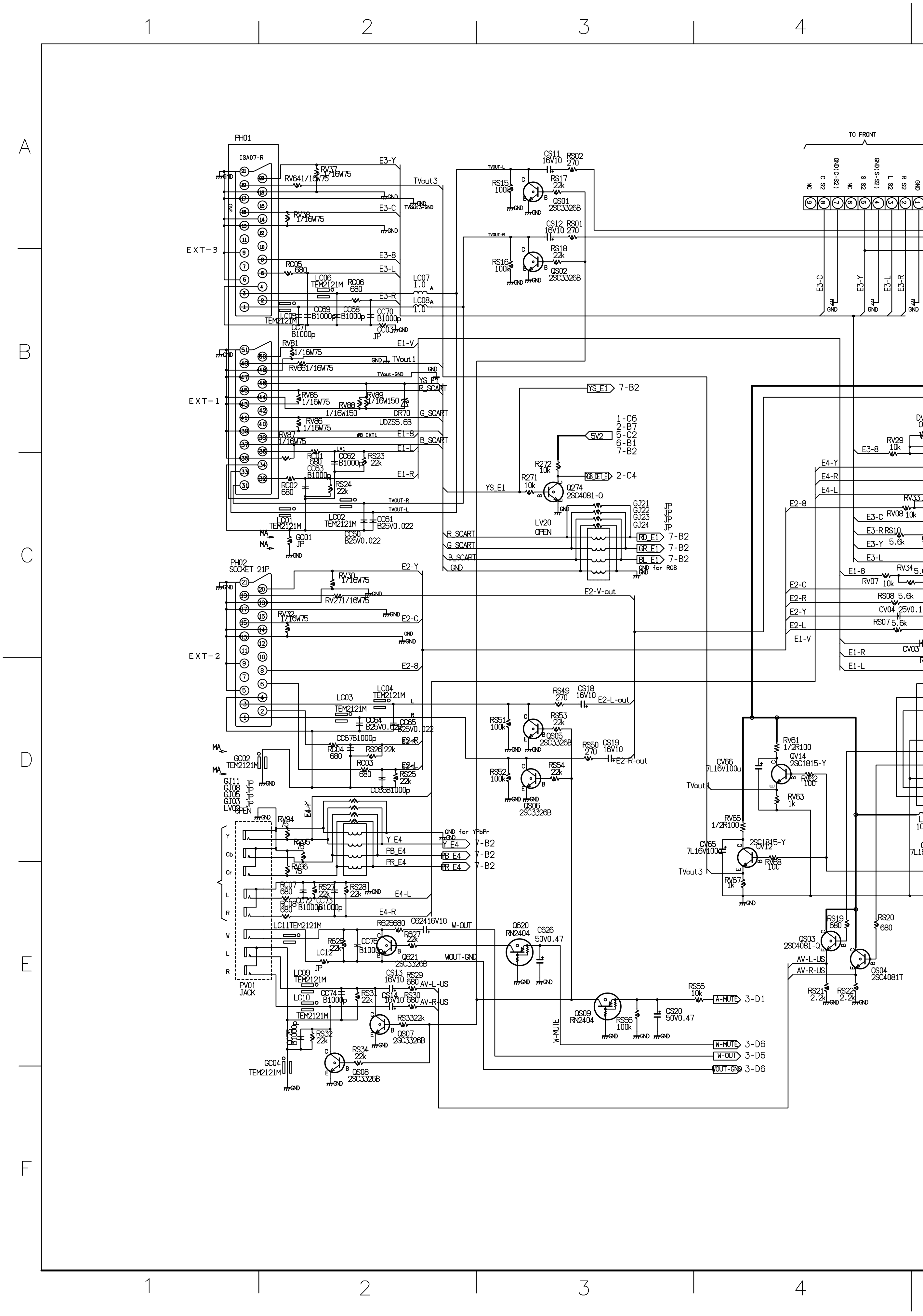

1
2
3
4
A
B
C
D
E
F
Q610 TA8216H
NF(R)
IN (R)
GND
IN (L)
NF(L)
FILTER
OUT(L)
MUTE T.C
①
②
③
④
⑤
⑥
⑦
⑧
1.9
1.9
0
1.9
1.9
8.8
12.9
0
C607 25V47
C608 25V47
C609 25V47
C61 50V4
C605 50V1.0
Q612 2SC3326B
C606 50V1.0
Q611 2SC3326B
C601 50V1.0
R601 2.2k
C603 50V1000p
R605 12k
R603 12k
R606 12k
C602 50V1.0
R602 2.2k
C604 50V1000p
R604 12k
R607 22k
R608 22k
R612 OPEN
R611 100k
C618 50V0.47
R614 22k
Q614 RN14
5-B6 R_OUT
5-B6 L_OUT
1-C7 2-C8 5V1
5-B6 W_OUT
1-B6 2-B7 4-B7 5-C2 6-A1 7-C6 9V
D606 MA111
R620 1/2R1.2k
Q618 2SC4081T
4-E4 A-MUTE
Q616 2SA1576A
C619 16V470
C620 OPEN
D601 MA111
2-C6 SCART-MUTE
SCART-MUTE
D603 MA111
R618 10k
D604 MA111
R619 220k
2-D4 MUTE
MUTE
D602 MA111
1-B6 6-C8 +11V
C621 50V22
R621 15k
C622 50V0.01u
LC66 SHORT
R624 1k
W-MUTE
W-OUT
WOUT-GND
R622 15k
Q619 2SC4081T
R628 4.7k
R629 1k
GJ62 JP
Q617 TA75458P
Vcc
Vee
R623 5.6k
C623 OPEN
R646 8.2k
R637 8.2k
R636 8.2k
R647 8.2k
C630 OPEN
R635 5.6k
C628 50V10
R634 8.2k
C629 50V0.12u
C632 OPEN
C631 50V22
R633 220
C627 50V22
R632 22k
R631 3.3k
R630 12k
C634 35V100
D628 RD22MB2
C633 25V220
R643 10k
D605 MA111
R642 22k
R641 10k
Q624 2SC3326B
R644 47k
2-C6 WOOFER-SW
WOOFER-SW
Q626 2SC4081T
R645 100k
C636 50V10
Q625 RN2404


OUT(L)
MUTE T.C
VCC
GND
MUTE
OUT (R)
7
8
9
10
11
12
Q610A
9
0
30.0
0
0
13.0
C610
50V4.7
C611
OPEN
D608
MA111
D609
MA111
C615
50V1000
R610
1/6P2.2
C613
63V0.12
Q613
OPEN
R614
22k
R613
22k
D610
MA111
C616
50V1000
R609
1/6P2.2
D611
MA111
C614
63V0.12
Q614
RN1404
C617
50V22
+5V-1
C612
50V1000
P605A
6P
6 L
5 GND
4 R
3 GND
2
1 HP MUTE
to SPEAKER
Q615
2SA1576A
+9V
R617
100k
R615
10k
R616
10k
D607
MA111
GND_A 1-C7 5-B6
AUDIO-VCC 1-D7
TE
W-MUTE 4-E4
T
W-OUT 4-E4
ND
WOUT-GND 4-F4
A
B
C
D
E
F

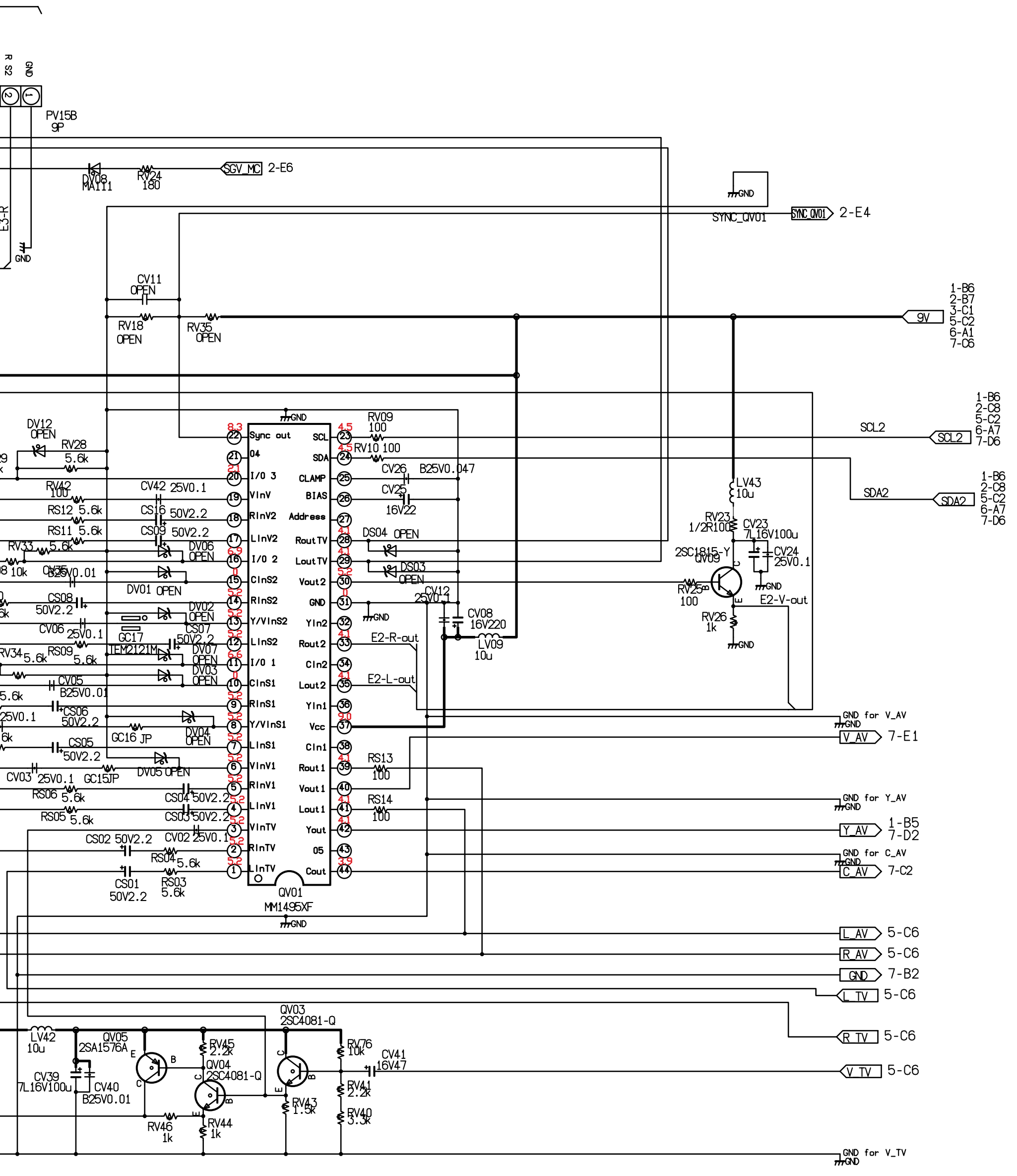
SIGNAL(AUDIO)
42PW23P
[SHEET-3]


PH01
EXT-3
EXT-1
EXT-2
PH02 SOCKET 21P
PV01 JACK
TO FRONT
PV15B 9P
QV01 MM1495XF
QS01 2SC3326B
QS02 2SC3326B
Q274 2SC4081-Q
QS05 2SC3326B
QS06 2SC3326B
QV14 2SC1815-Y
QV12 2SC1815-Y
QV05 2SA1576A
QV04 2SC4081-Q
QV03 2SC4081-Q
QS03 2SC4081-Q
QS04 2SC4081T
Q620 RN2404
QS09 RN2404
QS07 2SC3326B
QS08 2SC3326B
QV09 2SC1815-Y
YS_E1 7-B2
5V2 1-C6 2-B7 5-C2 6-B1 7-B2
RD_DET 2-C4
RD_E1 7-B2
GR_E1 7-B2
BL_E1 7-B2
Y_E4 7-B2
PB_E4 7-B2
PR_E4 7-B2
5GV_MC 2-E6
SYNC_QV01 2-E4
9V 1-B6 2-B7 3-C1 5-C2 6-A1 7-C6
SCL2 1-B6 2-C8 5-C2 6-A7 7-D6
SDA2 1-B6 2-C8 5-C2 6-A7 7-D6
V_AV 7-E1
Y_AV 1-B5 7-D2
C_AV 7-C2
L_AV 5-C6
R_AV 5-C6
GND 7-B2
L_TV 5-C6
R_TV 5-C6
V_TV 5-C6
A-MUTE 3-D1
W-MUTE 3-D6
W-OUT 3-D6
WOUT-GND 3-D6
E2-V-out
E2-L-out
E2-R-out
TVout1
TVout3

SIGNAL(AV)
42PW23P
[SHEET-4]

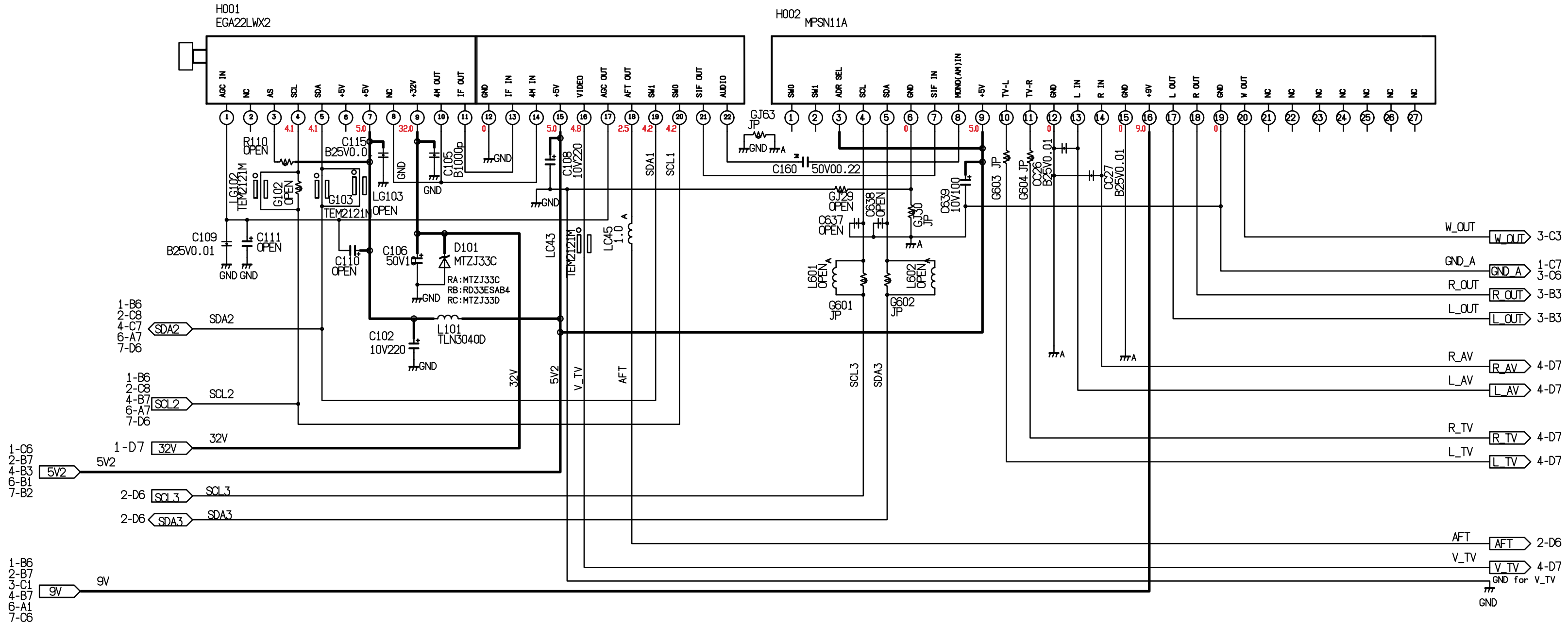


1
2
3
4
A
B
C
D
E
F
PH01
ISA07-R
EXT-3
EXT-1
EXT-2
PH02
SOCKET 21P
RV37 1/16W75
RV641/16W75
RV38 1/16W75
RC05 680
LC06 TEM2121M
RC06 680
LC07 1.0
LC08 1.0
CC69 B1000p
CC68 B1000p
CC70 B1000p
CC71 B1000p
GC03 JP
E3-Y
TVout3
E3-C
E3-8
E3-L
E3-R
E1-V
TVout1
RV81 1/16W75
RV661/16W75
RV85 1/16W75
RV88 1/16W150
RV89 1/16W150
DR70 UDZS5.6B
RV86 1/16W75
RV87 1/16W75
RC11 680
CC62 B1000p
CC63 B1000p
RS23 22k
RS24 22k
RC02 680
LC01 TEM2121M
LC02 TEM2121M
CC61 B25V0.022
CC60 B25V0.022
GC01 JP
YS_E1
R_SCART
G_SCART
B_SCART
E1-8
E1-L
E1-R
GND
CS11 16V10
RS02 270
RS15 100k
RS17 22k
QS01 2SC3326B
CS12 16V10
RS01 270
RS16 100k
RS18 22k
QS02 2SC3326B
TVOUT-L
TVOUT-R
YS_E1 7-B2
5V2
1-C6
2-B7
5-C2
6-B1
7-B2
R272 10k
R271 10k
RGB DET E 2-C4
Q274 2SC4081-Q
GJ21 JP
GJ22 JP
GJ23 JP
GJ24 JP
LV20 OPEN
RD_E1 7-B2
GR_E1 7-B2
BL_E1 7-B2
GND for RGB
E2-Y
RV30 1/16W75
RV271/16W75
RV32 1/16W75
E2-C
E2-8
E2-V-out
LC04 TEM2121M
LC03 TEM2121M
CC64 B25V0.022
CC65 B25V0.022
CC67B1000p
RC04 680
RS26 22k
RC03 680
RS25 22k
CC66B1000p
E2-R
E2-L
GC02 TEM2121M
GJ11 JP
GJ08 JP
GJ05 JP
GJ03 JP
LV02 OPEN
RS49 270
CS18 16V10
E2-L-out
RS51 100k
RS53 22k
QS05 2SC3326B
RS50 270
CS19 16V10
E2-R-out
RS52 100k
RS54 22k
QS06 2SC3326B
RV94 75
RV95 75
RV96 75
E4-Y
GND for YPbPr
Y_E4 7-B2
PB_E4 7-B2
PR_E4 7-B2
RC07 680
RS27 22k
RS28 22k
RC08 680
CC72 B1000p
CC73 B1000p
E4-L
E4-R
Y
Cb
Cr
L
R
W
PV01 JACK
LC11 TEM2121M
R625 680
C624 16V10
W-OUT
R627 22k
R626 22k
CC76 B1000p
Q621 2SC3326B
LC12 JP
WOUT-GND
Q620 RN2404
C626 50V0.47
LC09 TEM2121M
LC10
CC74 B1000p
RS31 22k
CS13 16V10
RS29 680
AV-L-US
CS14 16V10
RS30 680
AV-R-US
TEM2121M
CC75 B1000p
RS32 22k
RS33 22k
QS07 2SC3326B
RS34 22k
QS08 2SC3326B
GC04 TEM2121M
W-MUTE
QS09 RN2404
RS56 100k
CS20 50V0.47
RS55 10k
A-MUTE 3-D1
W-MUTE 3-D6
W-OUT 3-D6
WOUT-GND 3-D6
TO FRONT
NC
C S2
GND(C-S2)
S S2
GND(S-S2)
L S2
R S2
E3-8
RV29 10k
E4-Y
E4-R
E4-L
E2-8
RV33
E3-C
RV08 10k
E3-R
RS10
E3-Y 5.6k
E3-L
E1-8
RV34
RV07 10k
E2-C
RS08 5.6k
E2-R
E2-Y
CV04 25V0.1
E2-L
RS07 5.6k
E1-V
E1-R
CV03
E1-L
RV61 1/2R100
QV14 2SC1815-Y
CV66 7L16V100u
RV62 100
RV63 1k
TVout1
RV65 1/2R100
2SC1815-Y QV12
CV65 7L16V100u
RV68 100
TVout3
RV67 1k
RS19 680
RS20 680
QS03 2SC4081-Q
QS04 2SC4081T
AV-L-US
AV-R-US
RS21 2.2k
RS22 2.2k
GND
MA

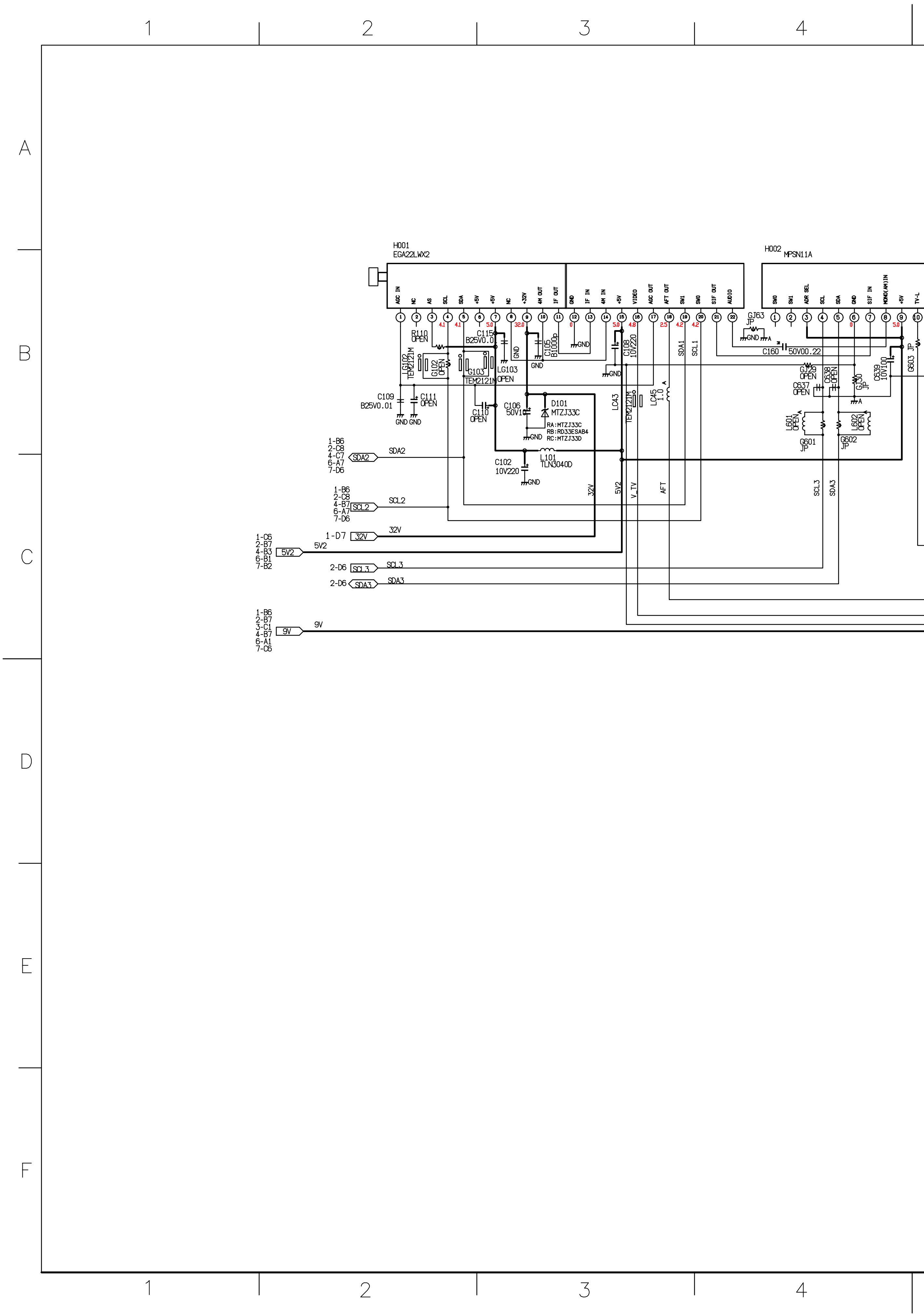

PV15B
9P
DV08
MA111
RV24
180
SGV_MC 2-E6
SYNC_QV01
SYNC_QV01 2-E4
CV11
OPEN
RV18
OPEN
RV35
OPEN
9V
1-B6
2-B7
3-C1
5-C2
6-A1
7-C6
SCL2
1-B6
2-C8
5-C2
6-A7
7-D6
SDA2
1-B6
2-C8
5-C2
6-A7
7-D6
QV01
MM1495XF
Sync out
SCL
SDA
CLAMP
BIAS
Address
Rout TV
Lout TV
Vout2
GND
Yin2
Rout2
Cin2
Lout2
Yin1
Vcc
Cin1
Rout1
Vout1
Lout1
Yout
05
Cout
04
I/O 3
VinV
RinV2
LinV2
I/O 2
CinS2
RinS2
Y/VinS2
LinS2
I/O 1
CinS1
RinS1
Y/VinS1
LinS1
VinV1
RinV1
LinV1
VinTV
RinTV
LinTV
RV09
100
RV10 100
CV26 B25V0.047
CV25
16V22
DS04 OPEN
DS03
OPEN
CV12
25V0.1
CV08
16V220
LV09
10u
E2-R-out
E2-L-out
RS13
100
RS14
100
LV43
10u
RV23
1/2R100
CV23
7L16V100u
CV24
25V0.1
2SC1815-Y
QV09
RV25
100
RV26
1k
E2-V-out
DV12
OPEN
RV28
5.6k
RV42
100
RS12 5.6k
RS11 5.6k
RV33 5.6k
CV42 25V0.1
CS16 50V2.2
CS09 50V2.2
DV06
OPEN
CV35
B25V0.01
DV01 OPEN
CS08
50V2.2
CV06
25V0.1
DV02
OPEN
CS07
50V2.2
GC17
TEM2121M
DV07
OPEN
DV03
OPEN
RS09 5.6k
RV34 5.6k
CV05
B25V0.01
CS06
50V2.2
DV04
OPEN
GC16 JP
CS05
50V2.2
DV05 OPEN
CV03 25V0.1
GC15JP
RS06 5.6k
RS05 5.6k
CS04 50V2.2
CS03 50V2.2
CS02 50V2.2
CV02 25V0.1
RS04
5.6k
CS01
50V2.2
RS03
5.6k
GND for V_AV
V_AV 7-E1
GND for Y_AV
Y_AV 1-B5
7-D2
GND for C_AV
C_AV 7-C2
L_AV 5-C6
R_AV 5-C6
GND 7-B2
L_TV 5-C6
R_TV 5-C6
V_TV 5-C6
GND for V_TV
LV42
10u
CV39
7L16V100u
CV40
B25V0.01
QV05
2SA1576A
RV45
2.2k
QV04
2SC4081-Q
RV46
1k
RV44
1k
QV03
2SC4081-Q
RV76
10k
CV41
16V47
RV41
2.2k
RV40
3.3k
RV43
1.5k
GND

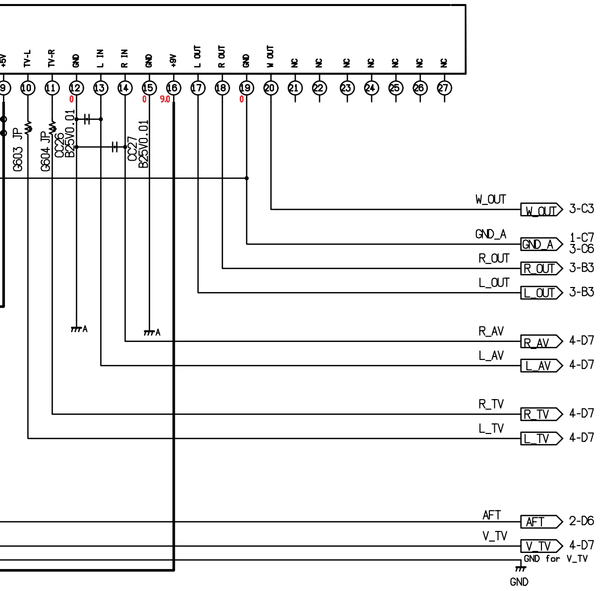
A
B
C
D
E
F

SIGNAL(AV)
42PW23P
[SHEET-4]

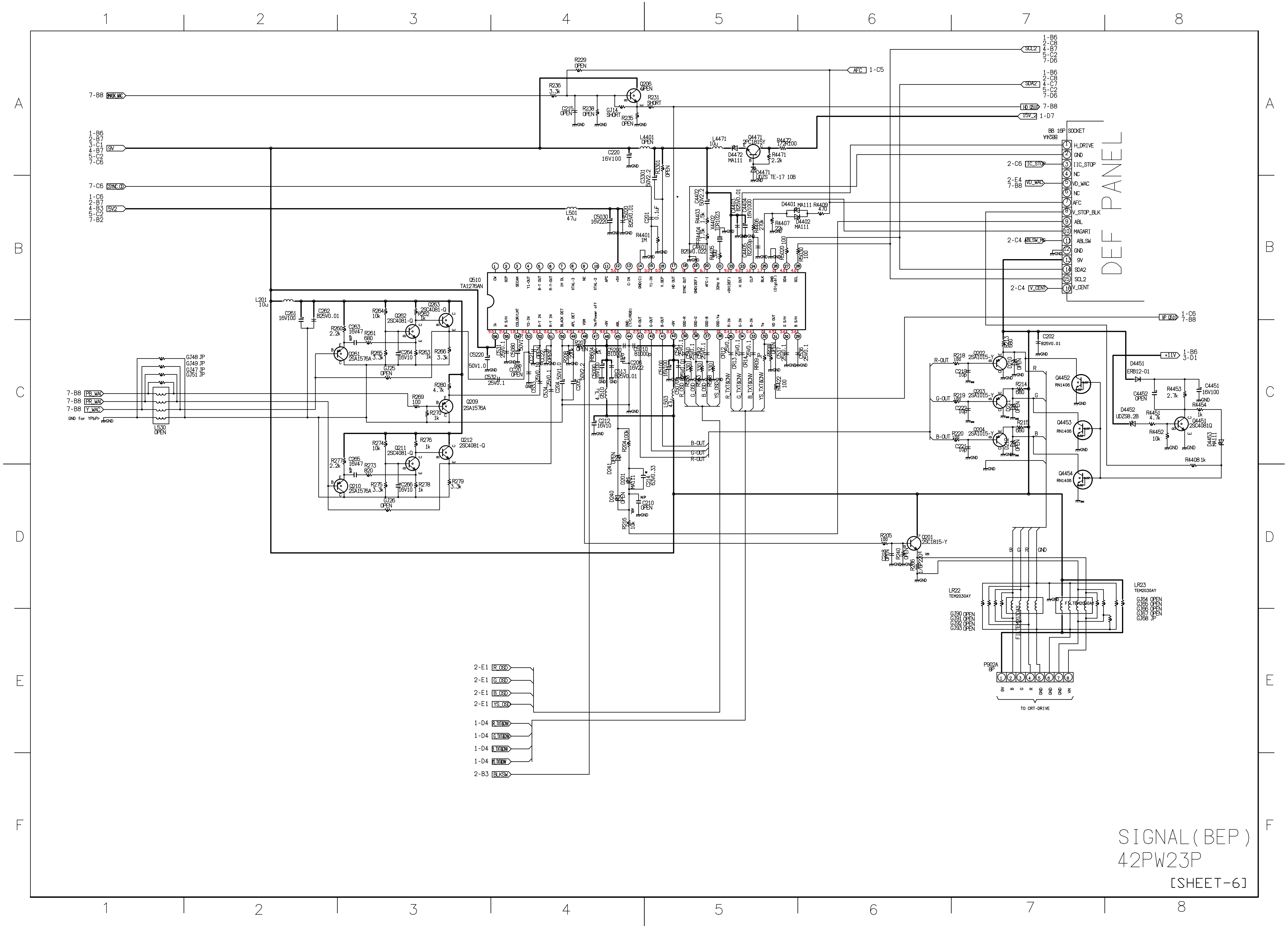

H001
EGA22LWX2
AGC IN
NC
AS
SCL
SDA
+5V
+5V
NC
+32V
4M OUT
IF OUT
GND
IF IN
4M IN
+5V
VIDEO
AGC OUT
AFT OUT
SW1
SW0
SIF OUT
AUDIO
4.1
4.1
5.0
32.0
0
5.0
4.8
2.5
4.2
4.2
R110
OPEN
C115
B25V0.01
LG102
TEM2121M
G102
OPEN
G103
TEM2121M
LG103
OPEN
C105
B1000p
C108
10V220
SDA1
SCL1
C109
B25V0.01
C111
OPEN
C110
OPEN
C106
50V10
D101
MTZJ33C
RA:MTZJ33C
RB:RD33ESAB4
RC:MTZJ33D
LC43
TEM2121M
LC45
1.0
L101
TLN3040D
C102
10V220
GND
1-B6
2-C8
4-C7
6-A7
7-D6
SDA2
1-B6
2-C8
4-B7
6-A7
7-D6
SCL2
1-D7
32V
1-C6
2-B7
4-B3
6-B1
7-B2
5V2
2-D6
SCL3
2-D6
SDA3
1-B6
2-B7
3-C1
4-B7
6-A1
7-C6
9V
32V
5V2
V_TV
AFT
H002
MPSN11A
SW0
SW1
ADR SEL
SCL
SDA
GND
SIF IN
MONO(AM)IN
+5V
TV-L
TV-R
GND
L IN
R IN
GND
+9V
L OUT
R OUT
GND
W OUT
NC
0
5.0
0
0
9.0
0
GJ63
JP
C160
50V00.22
GJ29
OPEN
C638
OPEN
C637
OPEN
GJ30
JP
C639
10V100
G603 JP
G604 JP
CC26
B25V0.01
CC27
B25V0.01
L601
OPEN
G601
JP
L602
OPEN
G602
JP
SCL3
SDA3
W_OUT
3-C3
GND_A
1-C7
3-C6
R_OUT
3-B3
L_OUT
3-B3
R_AV
4-D7
L_AV
4-D7
R_TV
4-D7
L_TV
4-D7
AFT
2-D6
V_TV
4-D7
GND for V_TV
GND

SIGNAL(TUNER/IF/MA)
42PW23P
[SHEET-5]

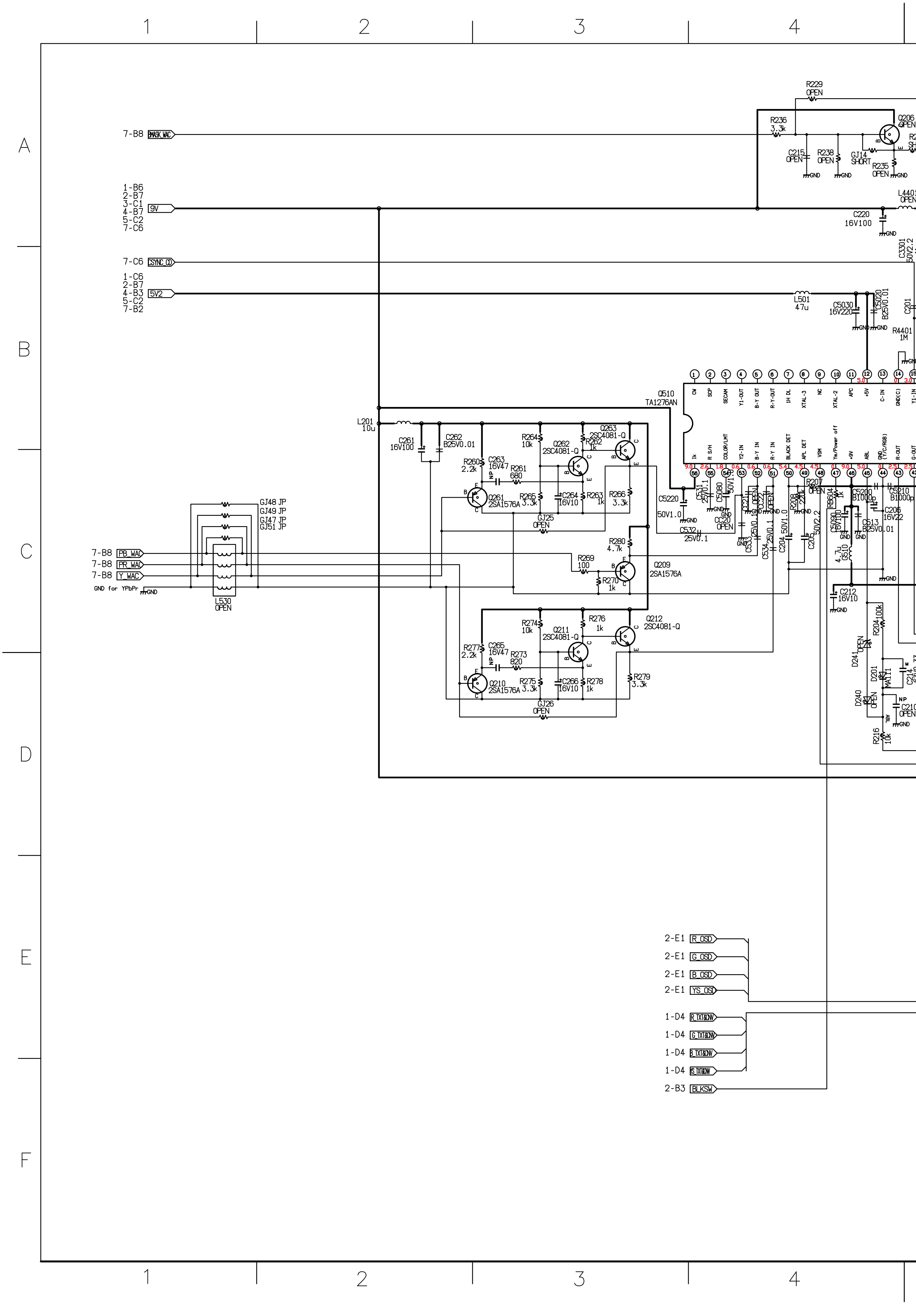

1
2
3
4
A
B
C
D
E
F
H001
EGA22LWX2
AGC IN
NC
AS
SCL
SDA
+5V
+5V
NC
+32V
4M OUT
IF OUT
GND
IF IN
4M IN
+5V
VIDEO
AGC OUT
AFT OUT
SW1
SW0
SIF OUT
AUDIO
4.1
4.1
5.0
32.0
0
5.0
4.8
2.5
4.2
4.2
R110
OPEN
C115
B25V0.01
GND
C105
B1000p
GND
GND
C108
10V220
GND
SDA1
SCL1
LG102
TEM2121M
G102
OPEN
G103
TEM2121M
LG103
OPEN
C109
B25V0.01
C111
OPEN
GND GND
C110
OPEN
C106
50V10
D101
MTZJ33C
RA:MTZJ33C
RB:RD33ESAB4
RC:MTZJ33D
GND
LC43
TEM2121M
LC45
1.0
A
L101
TLN3040D
C102
10V220
GND
GJ63
JP
GND
A
C160
50V00.22
H002
MPSN11A
SW0
SW1
ADR SEL
SCL
SDA
GND
SIF IN
MONO(AM)IN
+5V
TV-L
0
5.0
GJ29
OPEN
C637
OPEN
C638
OPEN
GJ30
JP
A
C639
10V100
G603
JP
L601
OPEN
A
G601
JP
L602
OPEN
G602
JP
32V
5V2
V_TV
AFT
SCL3
SDA3
1-B6
2-C8
4-C7
6-A7
7-D6
SDA2
SDA2
1-B6
2-C8
4-B7
6-A7
7-D6
SCL2
SCL2
1-D7
32V
32V
1-C6
2-B7
4-B3
6-B1
7-B2
5V2
5V2
2-D6
SCL3
SCL3
2-D6
SDA3
SDA3
1-B6
2-B7
3-C1
4-B7
6-A1
7-C6
9V
9V

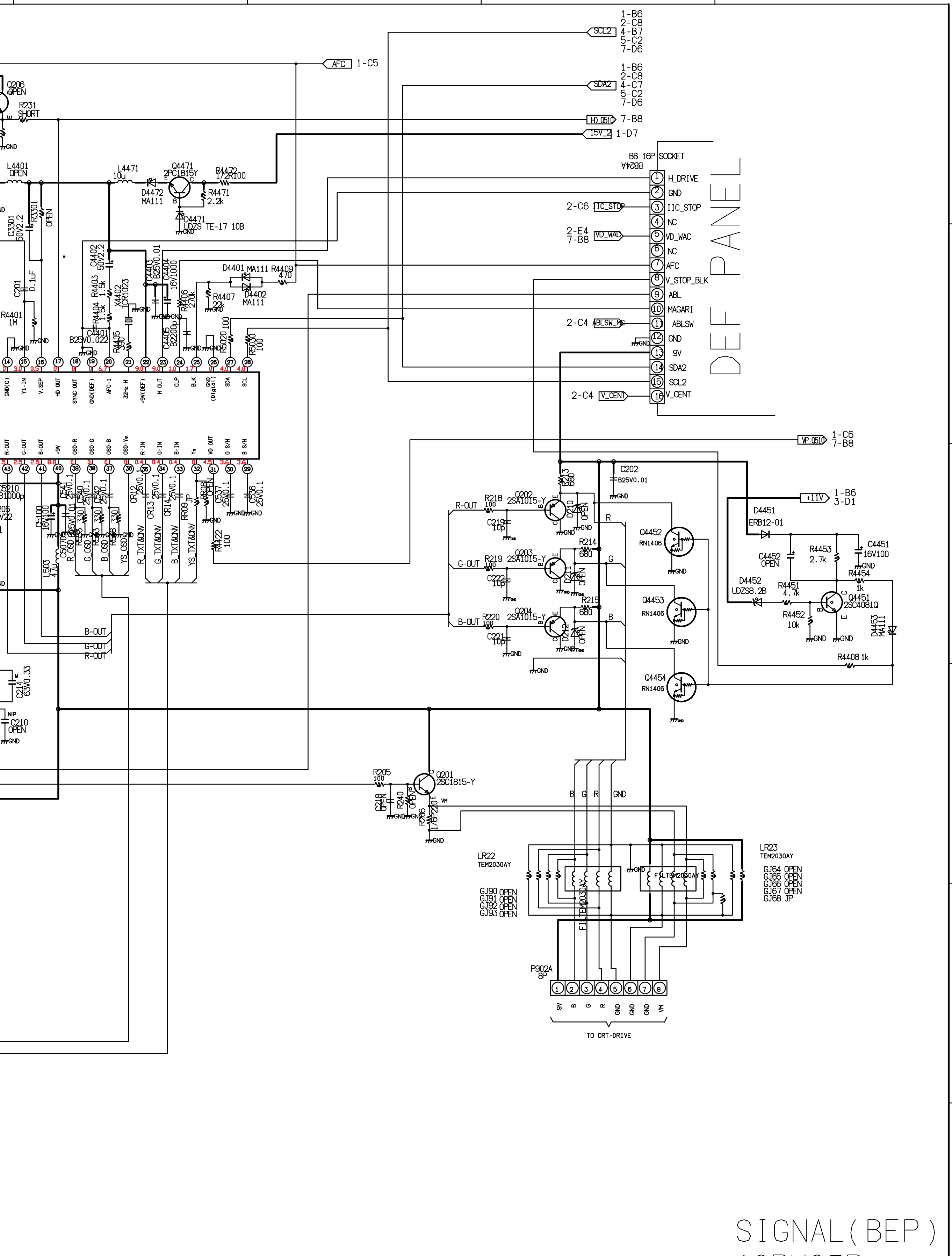

+5V
TV-L
TV-R
GND
L IN
R IN
GND
+9V
L OUT
R OUT
GND
W OUT
NC
NC
NC
NC
NC
NC
NC
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
0
0
9.0
0
G603 JP
G604 JP
CC26
B25V0.01
CC27
B25V0.01
A
A
W_OUT
W_OUT
3-C3
GND_A
GND_A
1-C7
3-C6
R_OUT
R_OUT
3-B3
L_OUT
L_OUT
3-B3
R_AV
R_AV
4-D7
L_AV
L_AV
4-D7
R_TV
R_TV
4-D7
L_TV
L_TV
4-D7
AFT
AFT
2-D6
V_TV
V_TV
4-D7
GND for V_TV
GND

SIGNAL(TUNER/IF/MA)
42PW23P
[SHEET-5]

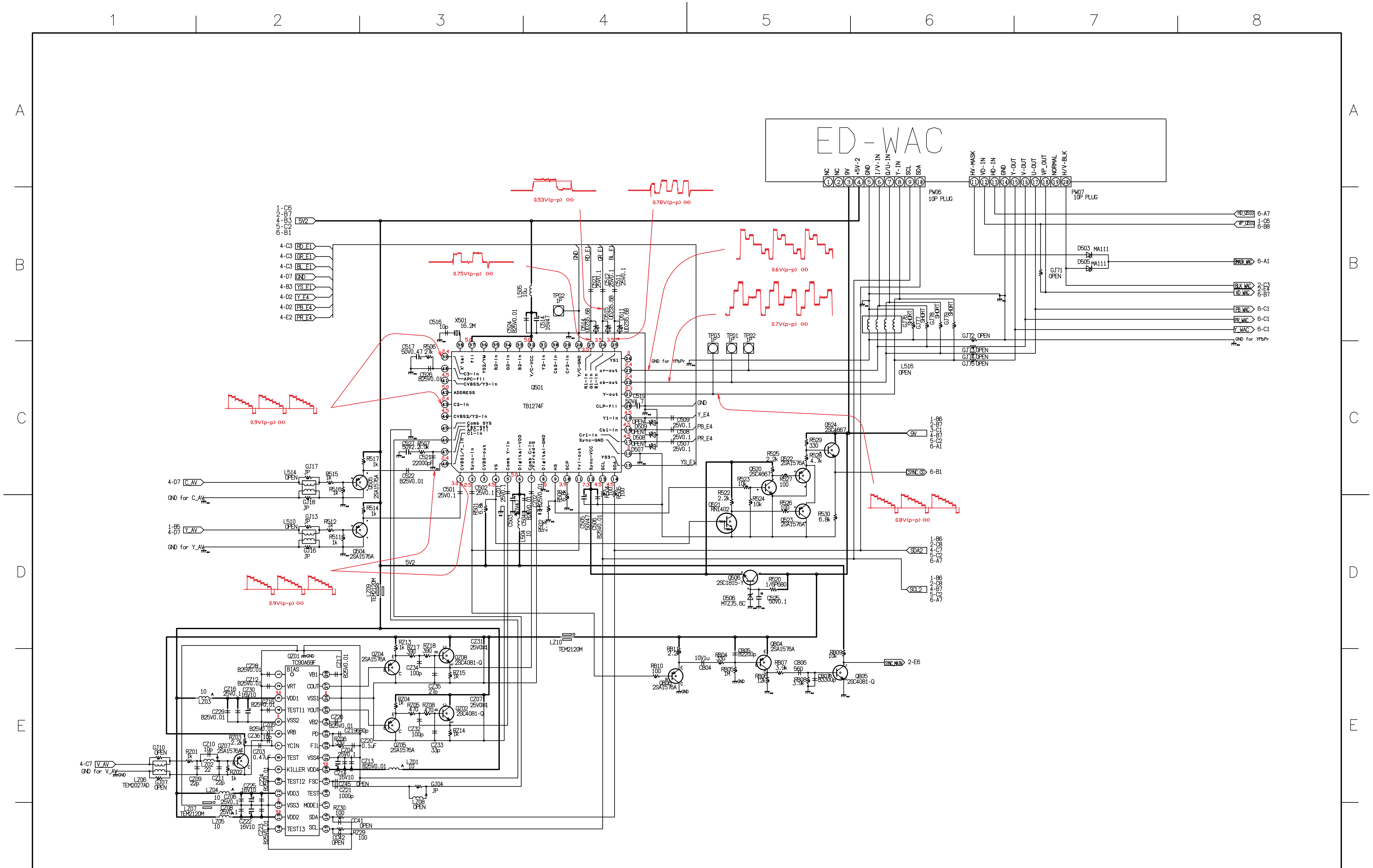

1
2
3
4
5
6
7
8
A
B
C
D
E
F
7-B8 PASK_WAC
9V
7-C6 SYNC_D
5V2
AFC 1-C5
SCL2
SDA2
HD Q5I0 7-B8
15V_2 1-D7
R229 OPEN
R236 3.3k
Q206 OPEN
R231 SHORT
C215 OPEN
R238 OPEN
GJ14 SHORT
R235 OPEN
L4401 OPEN
C220 16V100
L4471 10u
Q4471 2SC1815Y
D4472 MA111
R4472 1/2K100
R4471 2.2k
D4471 UDZS TE-17 10B
L501 47u
C5030 16V220
C5020 B25V0.01
C201 0.1uF
R4401 1M
D4401 MA111
R4409 470
D4402 MA111
R4407 22k
Q510 TA1276AN
L201 10u
C261 16V100
C262 B25V0.01
Q261 2SA1576A
Q262 2SC4081-Q
Q263 2SC4081-Q
Q209 2SA1576A
Q210 2SA1576A
Q211 2SC4081-Q
Q212 2SC4081-Q
GJ48 JP
GJ49 JP
GJ47 JP
GJ51 JP
L530 OPEN
7-B8 PB_WAC
7-B8 PR_WAC
7-B8 Y_WAC
GND for YPbPr
BB 16P SOCKET
H_DRIVE
GND
IIC_STOP
NC
VD_WAC
NC
AFC
V_STOP_BLK
ABL
MAGARI
ABLSW
GND
9V
SDA2
SCL2
V_CENT
DEF PANEL
VP Q5I0 1-C6 7-B8
+11V 1-B6 3-D1
Q202 2SA1015-Y
Q203 2SA1015-Y
Q204 2SA1015-Y
R-OUT
G-OUT
B-OUT
Q4452 RN1406
Q4453 RN1406
Q4454 RN1406
D4451 ERB12-01
C4451 16V100
Q4451 2SC4081Q
D4452 UDZS8.2B
D4453 MA111
R4408 1k
Q201 2SC1815-Y
B G R GND
LR22 TEM2030AY
LR23 TEM2030AY
GJ90 OPEN
GJ91 OPEN
GJ92 OPEN
GJ93 OPEN
GJ64 OPEN
GJ65 OPEN
GJ66 OPEN
GJ67 OPEN
GJ68 JP
P902A 8P
TO CRT-DRIVE
2-E1 R_OSD
2-E1 G_OSD
2-E1 B_OSD
2-E1 YS_OSD
1-D4 R_TXT
1-D4 G_TXT
1-D4 B_TXT
1-D4 YS_TXT
2-B3 BLKSW

SIGNAL(BEP)
42PW23P
[SHEET-6]

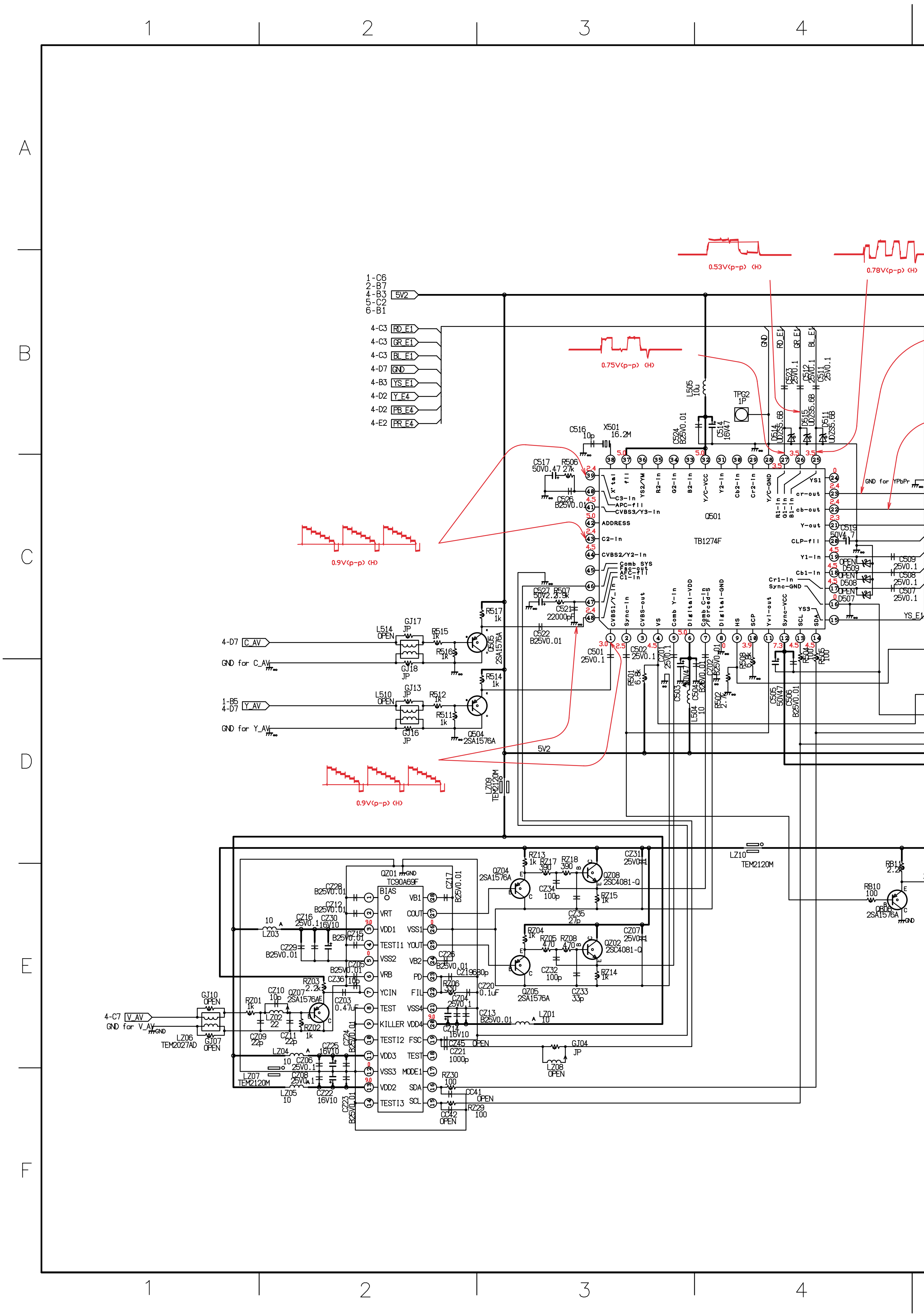

1
2
3
4
A
B
C
D
E
F
R229
OPEN
R236
3.3k
Q206
OPEN
7-B8
BMASK_WAC
C215
OPEN
R238
OPEN
GJ14
SHORT
R235
OPEN
GND
1-B6
2-B7
3-C1
4-B7
5-C2
7-C6
9V
L4401
OPEN
C220
16V100
C3301
50V2.2
7-C6
CSYNC_CO
1-C6
2-B7
4-B3
5-C2
7-B2
5V2
L501
47u
C5030
16V220
C5020
B25V0.01
C201
R4401
1M
Q510
TA1276AN
CW
SCP
SECAM
Y1-OUT
B-Y OUT
R-Y-OUT
1H DL
XTAL-3
NC
XTAL-2
APC
+5V
C-IN
GND(C)
Y1-IN
1k
R S/H
COLOR/LMT
Y2-IN
B-Y IN
R-Y IN
BLACK DET
APL DET
VSM
Ym/Power off
+9V
ABL
GND (Y/C/RGB)
R-OUT
G-OUT
L201
10u
C261
16V100
C262
B25V0.01
R264
10k
Q262
2SC4081-Q
Q263
2SC4081-Q
R262
1k
R260
2.2k
C263
16V47
NP
R261
680
Q261
2SA1576A
R265
3.3k
C264
16V10
R263
1k
R266
3.3k
GJ25
OPEN
C5220
50V1.0
C531
25V0.1
C5080
50V1.0
CC20
OPEN
C532
25V0.1
C533
C534
25V0.1
C204
50V1.0
C205
50V2.2
R207
OPEN
R208
2.2k
R8604
1k
C5200
B1000p
C5210
B1000p
C206
16V22
C5090
16V100
C513
B25V0.01
L510
4.7u
C212
16V10
R204
100k
D241
OPEN
D201
MA111
C214
D240
OPEN
C210
OPEN
R216
10k
GJ48 JP
GJ49 JP
GJ47 JP
GJ51 JP
7-B8
PB_WAC
7-B8
PR_WAC
7-B8
Y_WAC
GND for YPbPr
L530
OPEN
R280
4.7k
R269
100
Q209
2SA1576A
R270
1k
R274
10k
Q211
2SC4081-Q
R276
1k
Q212
2SC4081-Q
R277
2.2k
C265
16V47
R273
820
Q210
2SA1576A
R275
3.3k
C266
16V10
R278
1k
R279
3.3k
GJ26
OPEN
2-E1
R_OSD
2-E1
G_OSD
2-E1
B_OSD
2-E1
YS_OSD
1-D4
R_TXT&CCW
1-D4
G_TXT&CCW
1-D4
B_TXT&CCW
1-D4
YS_TXT&CCW
2-B3
BLKSW


DEF PANEL
BB 16P SOCKET
H_DRIVE
GND
IIC_STOP
NC
VD_WAC
NC
AFC
V_STOP_BLK
ABL
MAGARI
ABLSW
GND
9V
SDA2
SCL2
V_CENT
SCL2 1-B6 2-C8 4-B7 5-C2 7-D6
AFC 1-C5
SDA2 1-B6 2-C8 4-C7 5-C2 7-D6
HD 0510 7-B8
15V_2 1-D7
2-C6 IIC_STOP
2-E4 7-B8 VD_WAC
2-C4 ABLSW_MS
2-C4 V_CENT
VP 0510 1-C6 7-B8
+11V 1-B6 3-D1
Q206 OPEN
R231 SHORT
L4401 OPEN
L4471 10u
Q4471 2PC1815Y
R4472 1/2R100
R4471 2.2k
D4472 MA111
D4471 UDZS TE-17 10B
C3301 50V2.2
R3301
OPEN
C201 0.1uF
R4401 1M
C4402 50V2.2
R4403 1.5k
R4404 1.5k
X4402 TCR1023
C4401 B25V0.022
R4405 330
C4403 B25V0.01
C4404 16V1000
C4405 B2200p
R4406 270k
D4401 MA111
R4409 470
R4407 22k
D4402 MA111
R5020 100
R5030 100
GND(C)
Y1-IN
V.SEP
HD OUT
SYNC OUT
GND(DEF)
AFC-1
32Hz H
+9V(DEF)
H OUT
CLP
BLK
GND (Digital)
SDA
SCL
R-OUT
G-OUT
B-OUT
+9V
OSD-R
OSD-G
OSD-B
OSD-Ys
R-IN
G-IN
B-IN
Ys
VD OUT
G S/H
B S/H
R_OSD
G_OSD
B_OSD
YS_OSD
R_TXT&CNV
G_TXT&CNV
B_TXT&CNV
YS_TXT&CNV
L503 47u
C214 63V0.33
C210 OPEN
B-OUT
G-OUT
R-OUT
R213 680
C202 B25V0.01
R218 100
Q202 2SA1015-Y
C219 10p
D210 OPEN
R219 100
Q203 2SA1015-Y
C222 10p
R214 680
R220 100
Q204 2SA1015-Y
C221 10p
R215 680
Q4452 RN1406
Q4453 RN1406
Q4454 RN1406
D4451 ERB12-01
C4452 OPEN
R4453 2.7k
C4451 16V100
D4452 UDZS8.2B
R4451 4.7k
R4454 1k
Q4451 2SC4081Q
R4452 10k
D4453 MA111
R4408 1k
R205 100
Q201 2SC1815-Y
C218 OPEN
R240 OPEN
R206 1/6F220
LR22 TEM2030AY
LR23 TEM2030AY
GJ90 OPEN
GJ91 OPEN
GJ92 OPEN
GJ93 OPEN
GJ64 OPEN
GJ65 OPEN
GJ66 OPEN
GJ67 OPEN
GJ68 JP
FILTEM2030AY
P902A 8P
9V
B
G
R
GND
GND
GND
VM
TO CRT-DRIVE
5
6
7
8
A
B
C
D
E
F

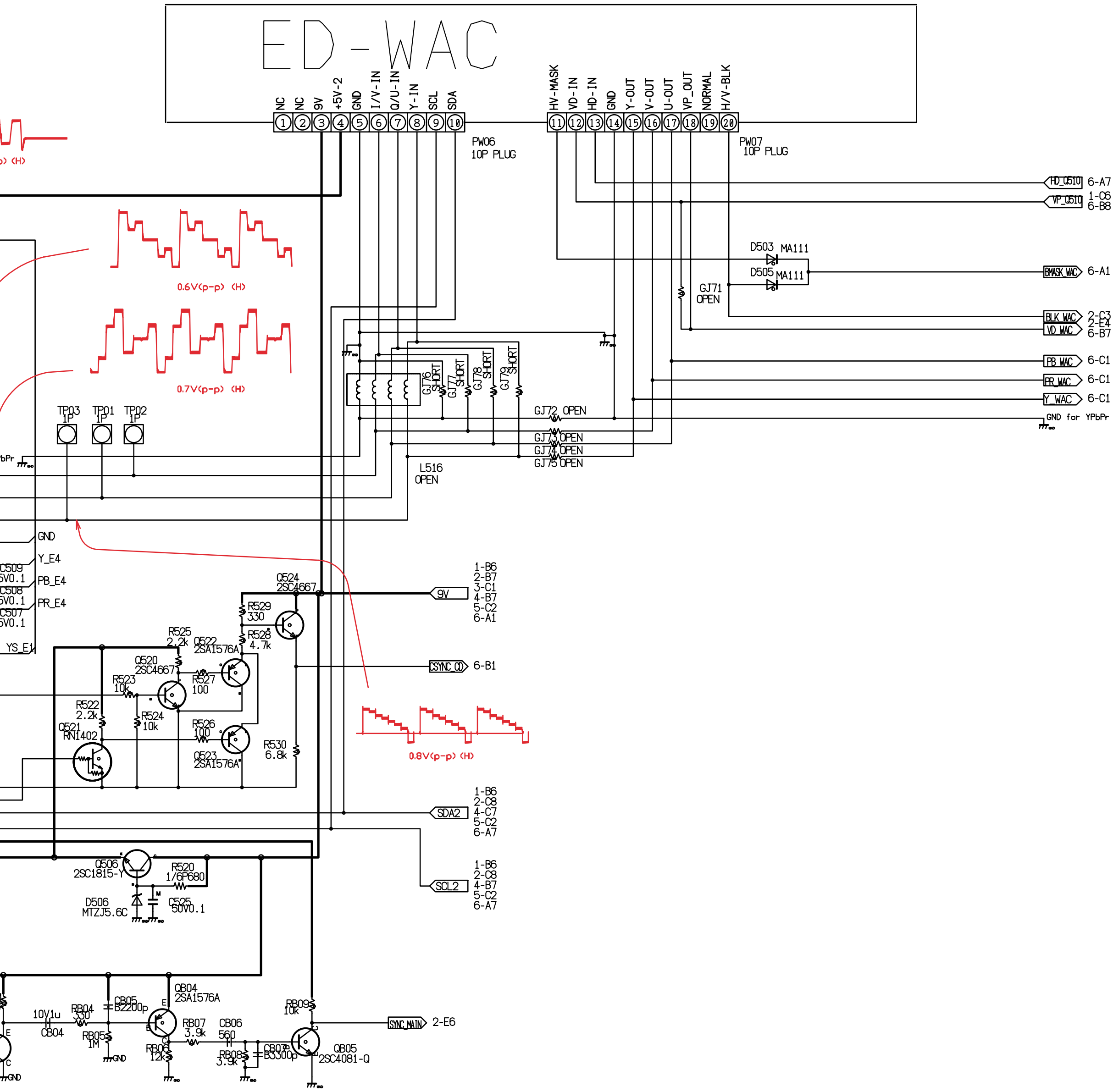
SIGNAL(BEP)
42PW23P
[SHEET-6]


ED-WAC
NC
NC
9V
+5V-2
GND
I/V-IN
Q/U-IN
Y-IN
SCL
SDA
PW06
10P PLUG
HV-MASK
VD-IN
HD-IN
GND
Y-OUT
V-OUT
U-OUT
VP_OUT
NORMAL
H/V-BLK
PW07
10P PLUG
0.53V(p-p) (H)
0.78V(p-p) (H)
0.75V(p-p) (H)
0.6V(p-p) (H)
0.7V(p-p) (H)
0.9V(p-p) (H)
0.8V(p-p) (H)
5V2
RD_E1
GR_E1
BL_E1
GND
YS_E1
Y_E4
PB_E4
PR_E4
Q501
TB1274F
X501
16.2M
ADDRESS
C_AV
GND for C_AV
Y_AV
GND for Y_AV
V_AV
GND for V_AV
Q504
2SA1576A
Q505
2SA1576A
Q506
2SC1815-Y
D506
MTZJ5.6C
Q520
2SC4667
Q521
RN1402
Q522
2SA1576A
Q523
2SA1576A
Q524
2SC4667
D503
MA111
D505
MA111
9V
SYNC_CD
SDA2
SCL2
HD_DSUB
VP_DSUB
MASK_WAC
BLK_WAC
VD_WAC
PB_WAC
PR_WAC
Y_WAC
GND for YPbPr
QZ01
TC90A69F
QZ02
2SC4081-Q
QZ04
2SA1576A
QZ05
2SA1576A
QZ07
2SA1576AE
QZ08
2SC4081-Q
LZ07
TEM2120M
LZ06
TEM2027AD
LZ10
TEM2120M
LZ09
TEM2120M
Q804
2SA1576A
Q805
2SC4081-Q
Q806
2SA1576A
SNC_MAIN
2-E6
1
2
3
4
5
6
7
8
A
B
C
D
E
F

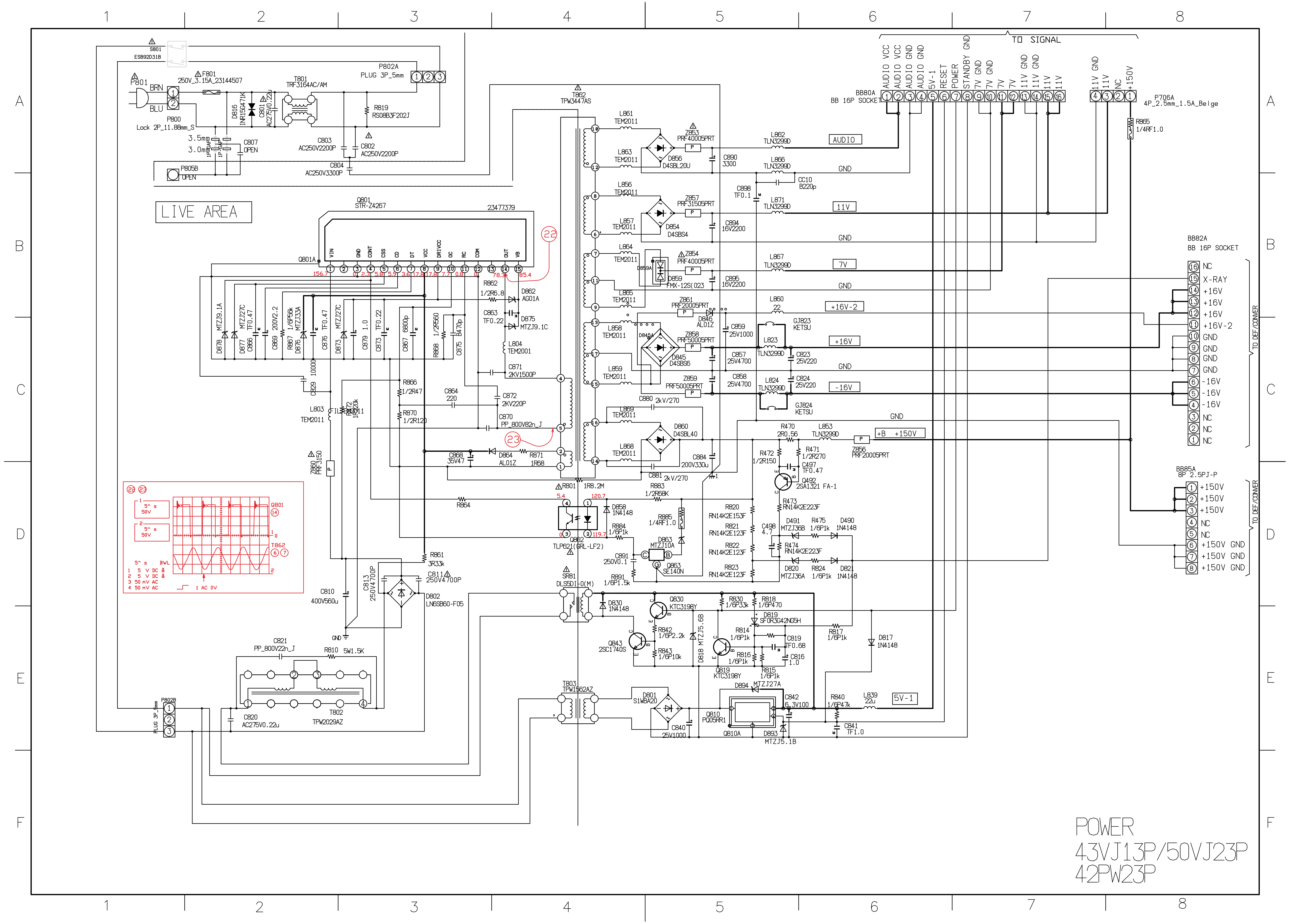
SIGNAL(MCD)
42PW23P
[SHEET-7]



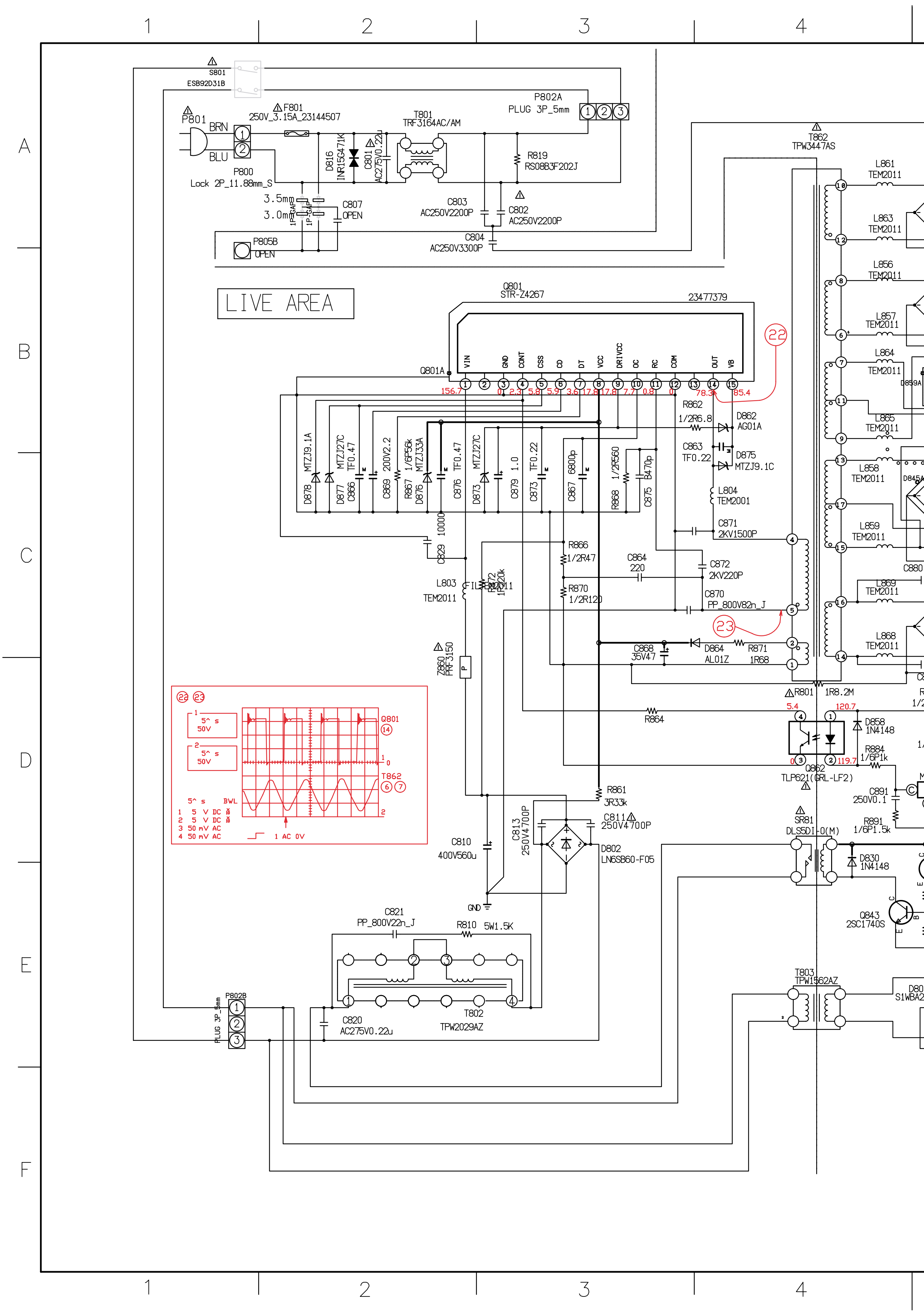
1
2
3
4
A
B
C
D
E
F
1-C6
2-B7
4-B3
5-C2
6-B1
5V2
4-C3 RD_E1
4-C3 GR_E1
4-C3 BL_E1
4-D7 GND
4-B3 YS_E1
4-D2 Y_E4
4-D2 PB_E4
4-E2 PR_E4
0.53V(p-p) (H)
0.78V(p-p) (H)
0.75V(p-p) (H)
0.9V(p-p) (H)
0.9V(p-p) (H)
L505 10u
TPG2 1P
C524 B25V0.01
C514 16V47
C516 10p
X501 16.2M
C517 50V0.47
R506 27k
C526 B25V0.01
C527 50V2.2
R507 3.9k
C521 22000pF
C522 B25V0.01
D514 UDZS5.6B
D515 UDZS5.6B
D511 UDZS5.6B
C513 25V0.1
C512 25V0.1
C511 25V0.1
GND
RD_E1
GR_E1
BL_E1
Q501
TB1274F
X'tal
fil
YS2/YM
R2-In
G2-In
B2-In
Y/C-VCC
Y2-In
Cb2-In
Cr2-In
Y/C-GND
R1-In
G1-In
B1-In
YS1
cr-out
cb-out
Y-out
CLP-fil
Y1-In
Cb1-In
Cr1-In
Sync-GND
YS3
SDA
C3-In
APC-fil
CVBS3/Y3-In
ADDRESS
C2-In
CVBS2/Y2-In
Comb SYS
Fsc-out
AFC-fil
C1-In
CVBS1/Y_In
Sync-In
CVBS-out
VS
Comb Y-In
Digital-VDD
Comb C-In /Forced-S
Digital-GND
HS
SCP
Yvl-out
Sync-VCC
SCL
GND for YPbPr
C519 50V4.7
C509 25V0.1
D509 OPEN
C508 25V0.1
D508 OPEN
C507 25V0.1
D507 OPEN
YS_E1
R517 1k
R515 1k
R516 1k
Q505 2SA1576A
GJ17 JP
L514 OPEN
GJ18 JP
4-D7 C_AV
GND for C_AV
R514 1k
R512 1k
R511 1k
Q504 2SA1576A
GJ13 JP
L510 OPEN
GJ16 JP
1-B5
4-D7 Y_AV
GND for Y_AV
C501 25V0.1
C502 25V0.1
C701 25V0.1
C503 16V47
C504 B25V0.01
C202 B25V0.01
R501 6.8k
L504 10
R502 27k
R508 6.8k
C505 50V47
C506 B25V0.01
R503 100
R505 100
5V2
LZ09 TEM2120M
LZ10 TEM2120M
RB11 2.2k
RB10 100
QB06 2SA1576A
GND
QZ01 TC90A69F
GND
BIAS
VRT
VDD1
TEST11
VSS2
VRB
YCIN
TEST
KILLER
TEST12
VDD3
VSS3
VDD2
TEST13
VB1
COUT
VSS1
YOUT
VB2
PD
FIL
VSS4
VDD4
FSC
TEST
MODE1
SDA
SCL
CZ17 B25V0.01
CZ28 B25V0.01
CZ12 B25V0.01
CZ16 25V0.1
CZ30 16V10
CZ15 B25V0.01
CZ29 B25V0.01
LZ03 10
CZ05 B25V0.01
CZ36 10p
RZ03 2.2k
CZ03 0.47uF
CZ10 10p
QZ07 2SA1576AE
RZ01 1k
LZ02 22
RZ02 1k
CZ09 22p
CZ11 22p
GJ10 OPEN
GJ07 OPEN
LZ06 TEM2027AD
4-C7 V_AV
GND for V_AV
GND
CZ24 B25V0.01
CZ25 16V10
LZ04 10
CZ06 25V0.1
CZ08 25V0.1
LZ07 TEM2120M
LZ05 10
CZ22 16V10
CZ23 B25V0.01
CZ26 B25V0.01
CZ19 680p
RZ06 330
CZ20 0.1uF
CZ04 25V0.1
CZ13 B25V0.01
CZ14 16V10
LZ01 10
CZ45 OPEN
CZ21 1000p
RZ30 100
CC41 OPEN
RZ29 100
CC42 OPEN
GJ04 JP
LZ08 OPEN
QZ04 2SA1576A
RZ13 1k
RZ17 390
RZ18 390
QZ08 2SC4081-Q
CZ31 25V0.1
CZ34 100p
RZ15 1k
CZ35 27p
RZ04 1k
RZ05 470
RZ08 470
QZ02 2SC4081-Q
CZ07 25V0.1
CZ32 100p
RZ14 1k
QZ05 2SA1576A
CZ33 33p

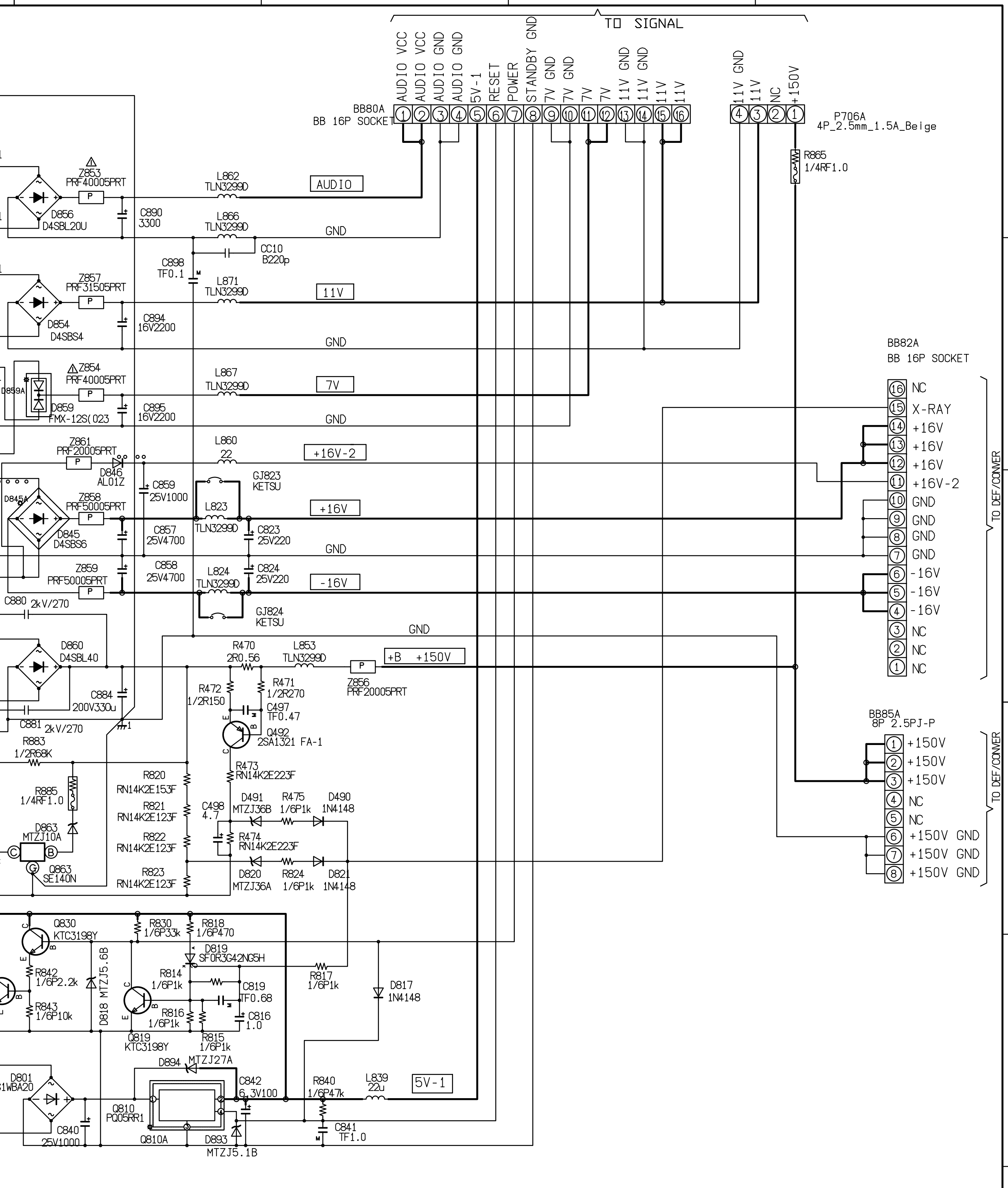

ED-WAC
NC
NC
9V
+5V-2
GND
I/V-IN
Q/U-IN
Y-IN
SCL
SDA
1 2 3 4 5 6 7 8 9 10
PW06
10P PLUG
HV-MASK
VD-IN
HD-IN
GND
Y-OUT
V-OUT
U-OUT
VP_OUT
NORMAL
H/V-BLK
11 12 13 14 15 16 17 18 19 20
PW07
10P PLUG
HD_Q510 6-A7
VP_Q510 1-C6 6-B8
D503 MA111
D505 MA111
BMASK WAC 6-A1
GJ71 OPEN
BLK WAC 2-C3 2-E4
VD WAC 6-B7
PB WAC 6-C1
PR WAC 6-C1
Y WAC 6-C1
GND for YPbPr
GJ76 SHORT
GJ77 SHORT
GJ78 SHORT
GJ79 SHORT
GJ72 OPEN
GJ73 OPEN
GJ74 OPEN
GJ75 OPEN
L516 OPEN
0.6V(p-p) (H)
0.7V(p-p) (H)
p) (H)
TP03 1P
TP01 1P
TP02 1P
bPr
GND
Y_E4
PB_E4
PR_E4
C509 5V0.1
C508 5V0.1
C507 5V0.1
YS_E
Q524 2SC4667
9V 1-B6 2-B7 3-C1 4-B7 5-C2 6-A1
R529 330
R528 4.7k
R525 2.2k
Q522 2SA1576A
Q520 2SC4667
R523 10k
R527 100
R522 2.2k
R524 10k
Q521 RN1402
R526 100
Q523 2SA1576A
R530 6.8k
SYNC_OD 6-B1
0.8V(p-p) (H)
SDA2 1-B6 2-C8 4-C7 5-C2 6-A7
SCL2 1-B6 2-C8 4-B7 5-C2 6-A7
Q506 2SC1815-Y
R520 1/6P680
D506 MTZJ5.6C
C525 50V0.1
10V1u
C804
R804 330
C805 B2200p
Q804 2SA1576A
R805 1M
GND
R807 3.9k
C806 560
R806 12k
R808 3.9k
C807 B3300p
R809 10k
Q805 2SC4081-Q
SYNC MAIN 2-E6
E
B
C

SIGNAL(MCD)
42PW23P
[SHEET-7]

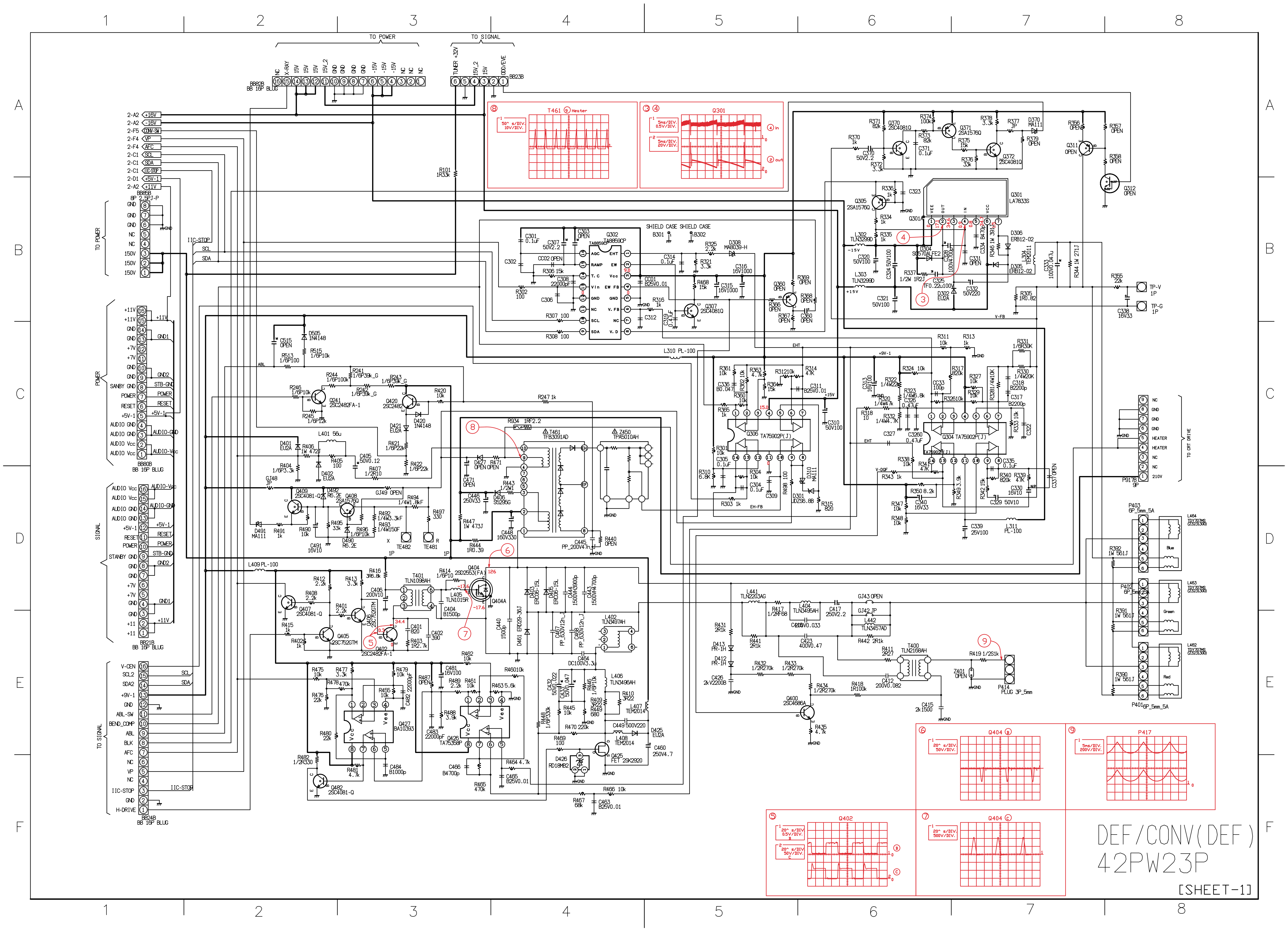

1
2
3
4
5
6
7
8
A
B
C
D
E
F
S801
ESB92D31B
P801
BRN
BLU
F801
250V_3.15A_23144507
T801
TRF3164AC/AM
P802A
PLUG 3P_5mm
R819
RS0B3F202J
P800
Lock 2P_11.88mm_S
D816
1NR15G471K
C801
AC275V0.22u
C807
OPEN
C803
AC250V2200P
C802
AC250V2200P
C804
AC250V3300P
P805B
OPEN
LIVE AREA
Q801
STR-Z4267
23477379
Q801A
VIN
GND
CONT
CSS
CD
DT
VCC
DRIVCC
OC
RC
COM
OUT
VB
156.7
78.3
85.4
22
23
R862
1/2R6.8
D862
AG01A
C863
TF0.22
D875
MTZJ9.1C
L804
TEM2001
C871
2KV1500P
D878
MTZJ9.1A
D877
MTZJ27C
C886
TF0.47
C869
200V2.2
R867
1/6P56k
D876
MTZJ33A
C876
TF0.47
D873
MTZJ27C
C879
1.0
C873
TF0.22
C867
6800p
R868
1/2R560
C875
8470p
C829
10000
R866
1/2R47
C864
220
C872
2KV220P
R870
1/2R120
C870
PP_800V82n_J
L803
TEM2011
R872
1/2R20k
Z860
PRF3150
C868
35V47
D864
AL01Z
R871
1R68
R864
R861
3R33k
C810
400V560u
C813
250V4700P
C811
250V4700P
D802
LN6SB60-F05
C821
PP_800V22n_J
R810
5W1.5K
C820
AC275V0.22u
T802
TPW2029AZ
P802B
PLUG 3P_5mm
T862
TPW3447AS
L861
TEM2011
Z853
PRF40005PRT
L863
TEM2011
D856
D4SBL20U
C890
3300
L862
TLN3299D
AUDIO
L866
TLN3299D
GND
CC10
B220p
C898
TF0.1
L856
TEM2011
Z857
PRF31505PRT
L871
TLN3299D
11V
L857
TEM2011
D854
D4SBS4
C894
16V2200
L864
TEM2011
Z854
PRF40005PRT
L867
TLN3299D
7V
D859A
D859
FMX-12S(023
C895
16V2200
L865
TEM2011
Z861
PRF20005PRT
L860
22
+16V-2
D846
AL01Z
C859
25V1000
GJ823
KETSU
L858
TEM2011
D845A
Z858
PRF50005PRT
L823
TLN3299D
+16V
C857
25V4700
C823
25V220
D845
D4SBS6
L859
TEM2011
Z859
PRF50005PRT
C858
25V4700
L824
TLN3299D
C824
25V220
-16V
C880
2kV/270
GJ824
KETSU
L869
TEM2011
D860
D4SBL40
R470
2R0.56
L853
TLN3299D
+B +150V
L868
TEM2011
C884
200V330u
R472
1/2R150
R471
1/2R270
Z856
PRF20005PRT
C497
TF0.47
Q492
2SA1321 FA-1
C881
2kV/270
R801
1R8.2M
R883
1/2R68K
5.4
120.7
D858
1N4148
R885
1/4RF1.0
R884
1/6P1k
0.3
119.7
D863
MTZJ10A
Q862
TLP621(GRL-LF2)
C891
250V0.1
Q863
SE140N
R891
1/6P1.5k
SR81
DLS5D1-0(M)
R820
RN14K2E153F
R821
RN14K2E123F
R822
RN14K2E123F
R823
RN14K2E123F
C498
4.7
R473
RN14K2E223F
D491
MTZJ36B
R475
1/6P1k
D490
1N4148
R474
RN14K2E223F
D820
MTZJ36A
R824
1/6P1k
D821
1N4148
D830
1N4148
Q830
KTC3198Y
R830
1/6P33k
R818
1/6P470
D819
SF0R3G42N05H
R817
1/6P1k
R842
1/6P2.2k
D818 MTZJ5.6B
R814
1/6P1k
C819
TF0.68
D817
1N4148
Q843
2SC1740S
R843
1/6P10k
R816
1/6P1k
C816
1.0
Q819
KTC3198Y
R815
1/6P1k
T803
TPW1562AZ
D801
S1WBA20
D894
MTZJ27A
C842
6.3V100
R840
1/6P47k
L839
22u
5V-1
Q810
PQ05RR1
C840
25V1000
Q810A
D893
MTZJ5.1B
C841
TF1.0
TO SIGNAL
AUDIO VCC
AUDIO VCC
AUDIO GND
AUDIO GND
5V-1
RESET
POWER
STANDBY GND
7V GND
7V GND
7V
7V
11V GND
11V GND
11V
11V
BB80A
BB 16P SOCKET
11V GND
11V
NC
+150V
P706A
4P_2.5mm_1.5A_Beige
R865
1/4RF1.0
BB82A
BB 16P SOCKET
NC
X-RAY
+16V
+16V
+16V
+16V-2
GND
GND
GND
GND
-16V
-16V
-16V
NC
NC
NC
TO DEF/CONVER
BB85A
8P 2.5PJ-P
+150V
+150V
+150V
NC
NC
+150V GND
+150V GND
+150V GND
TO DEF/CONVER
Q801
T862
5^ s
50V
5^ s
BWL
1 5 V DC
2 5 V DC
3 50 mV AC
4 50 mV AC
1 AC 0V

POWER
43VJ13P/50VJ23P
42PW23P

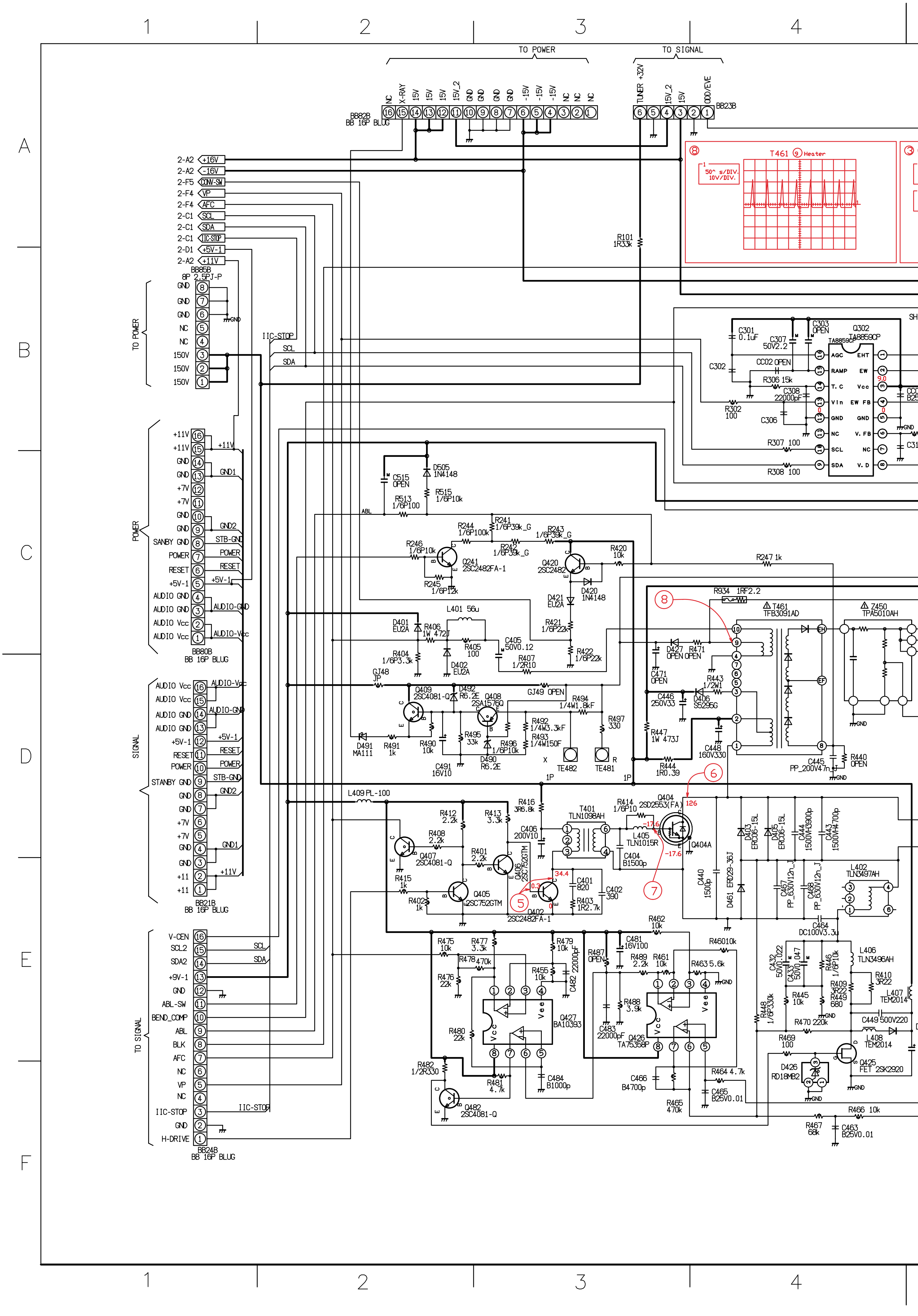

1
2
3
4
A
B
C
D
E
F
S801
ESB92D31B
P802A
PLUG 3P_5mm
F801
250V_3.15A_23144507
P801
BRN
BLU
P800
Lock 2P_11.88mm_S
T801
TRF3164AC/AM
D816
INR15G471K
C801
AC275V0.22u
R819
RS08B3F202J
3.5mm
3.0mm
1P_GAP
1P_GAP
C807
OPEN
C803
AC250V2200P
C802
AC250V2200P
C804
AC250V3300P
P805B
OPEN
T862
TPW3447AS
L861
TEM2011
L863
TEM2011
L856
TEM2011
L857
TEM2011
L864
TEM2011
D859A
L865
TEM2011
L858
TEM2011
D845A
L859
TEM2011
C880
L869
TEM2011
L868
TEM2011
LIVE AREA
Q801
STR-Z4267
23477379
Q801A
VIN
GND
CONT
CSS
CD
DT
VCC
DRIVCC
OC
RC
COM
OUT
VB
156.7
0
2.3
5.8
5.9
3.6
17.8
17.8
7.7
0.8
0
78.3
85.4
22
R862
1/2R6.8
D862
AG01A
C863
TF0.22
D875
MTZJ9.1C
L804
TEM2001
D878 MTZJ9.1A
D877 MTZJ27C
C866 TF0.47
C869 200V2.2
R867 1/6P56k
D876 MTZJ33A
C876 TF0.47
D873 MTZJ27C
C879 1.0
C873 TF0.22
C867 6800p
R868 1/2R560
C875 B470p
C829 10000
C871
2KV1500P
R866
1/2R47
C864
220
C872
2KV220P
L803
TEM2011
FIL
R872
1/2R220k
L802011
R870
1/2R120
C870
PP_800V82n_J
23
C868
35V47
D864
AL01Z
R871
1R68
Z860
PRF3150
P
R801
1R8.2M
5.4
120.7
R864
D858
1N4148
R884
1/6P1k
0
119.7
Q862
TLP621(GRL-LF2)
C891
250V0.1
R891
1/6P1.5k
SR81
DLS5DI-0(M)
D830
1N4148
Q843
2SC1740S
C
B
E
R861
3R33k
C811
250V4700P
C813
250V4700P
C810
400V560u
D802
LN6SB60-F05
GND
C821
PP_800V22n_J
R810 5W1.5K
T802
TPW2029AZ
C820
AC275V0.22u
P802B
PLUG 3P_5mm
T803
TPW1562AZ
D80
S1WBA2
22 23
1
5^ s
50V
2
5^ s
50V
Q801
14
1
0
T862
6 7
2
5^ s BWL
1 5 V DC
2 5 V DC
3 50 mV AC
4 50 mV AC
1 AC 0V


TO SIGNAL
AUDIO VCC
AUDIO VCC
AUDIO GND
AUDIO GND
5V-1
RESET
POWER
STANDBY GND
7V GND
7V GND
7V
7V
11V GND
11V GND
11V
11V
BB80A
BB 16P SOCKET
11V GND
11V
NC
+150V
P706A
4P_2.5mm_1.5A_Belge
R865
1/4RF1.0
Z853
PRF40005PRT
L862
TLN3299D
AUDIO
D856
D4SBL20U
C890
3300
L866
TLN3299D
GND
CC10
B220p
C898
TF0.1
Z857
PRF31505PRT
L871
TLN3299D
11V
D854
D4SBS4
C894
16V2200
GND
Z854
PRF40005PRT
L867
TLN3299D
7V
D859A
D859
FMX-12S(023
C895
16V2200
GND
Z861
PRF20005PRT
L860
22
+16V-2
D846
AL01Z
C859
25V1000
GJ823
KETSU
D845A
Z858
PRF50005PRT
L823
TLN3299D
+16V
D845
D4SBS6
C857
25V4700
C823
25V220
GND
Z859
PRF50005PRT
C858
25V4700
L824
TLN3299D
C824
25V220
-16V
C880
2kV/270
GJ824
KETSU
GND
D860
D4SBL40
R470
2R0.56
L853
TLN3299D
+B +150V
Z856
PRF20005PRT
R472
1/2R150
R471
1/2R270
C884
200V330u
C497
TF0.47
Q492
2SA1321 FA-1
C881
2kV/270
R883
1/2R68K
R473
RN14K2E223F
R820
RN14K2E153F
R885
1/4RF1.0
R821
RN14K2E123F
C498
4.7
D491
MTZJ36B
R475
1/6P1k
D490
1N4148
D863
MTZJ10A
R474
RN14K2E223F
R822
RN14K2E123F
Q863
SE140N
D820
MTZJ36A
R824
1/6P1k
D821
1N4148
R823
RN14K2E123F
Q830
KTC3198Y
R830
1/6P33k
R818
1/6P470
D819
SF0R3G42NG5H
R842
1/6P2.2k
D818 MTZJ5.6B
R814
1/6P1k
R817
1/6P1k
D817
1N4148
C819
TF0.68
R843
1/6P10k
R816
1/6P1k
C816
1.0
Q819
KTC3198Y
R815
1/6P1k
D894
MTZJ27A
D801
WBA20
C842
6.3V100
R840
1/6P47k
L839
22u
5V-1
Q810
PQ05RR1
C840
25V1000
Q810A
D893
MTZJ5.1B
C841
TF1.0
BB82A
BB 16P SOCKET
NC
X-RAY
+16V
+16V
+16V
+16V-2
GND
GND
GND
GND
-16V
-16V
-16V
NC
NC
NC
TO DEF/CONVER
BB85A
8P 2.5PJ-P
+150V
+150V
+150V
NC
NC
+150V GND
+150V GND
+150V GND
TO DEF/CONVER
5
6
7
8
A
B
C
D
E
F

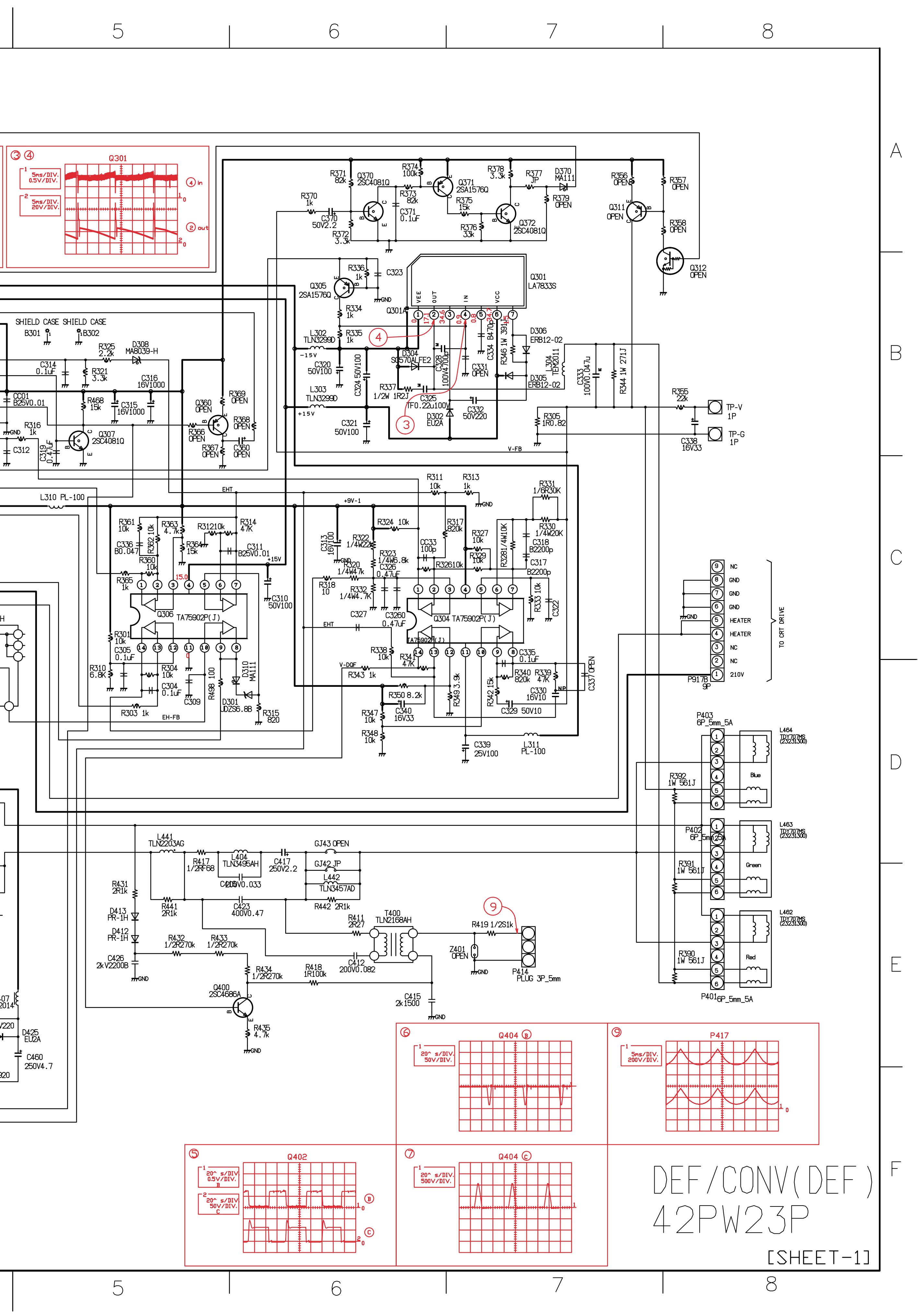
POWER
43VJ13P/50VJ23P
42PW23P


TO POWER
TO SIGNAL
BB82B BB 16P BLUG
BB23B
BB85B 8P 2.5PJ-P
TO POWER
POWER
BB80B BB 16P BLUG
SIGNAL
BB21B BB 16P BLUG
TO SIGNAL
BB24B BB 16P BLUG
SHIELD CASE
Q302 TA8859CP
Q301 LA7833S
Q306 TA75902P(J)
Q304 TA75902P(J)
T461 TFB3091AD
T450 TPA5010AH
T401 TLN1098AH
Q404 2SD2553(FA)
Q426 TA75358P
Q425 FET 2SK2920
T400 TLN2168AH
P414 PLUG 3P_5mm
P403 6P_5mm_5A
P402 6P_5mm_5A
P401 6P_5mm_5A
P917B 9P
TO CRT DRIVE
TP-V 1P
TP-G 1P
Q404 Ⓑ
Q404 Ⓒ
Q402
Q301
T461 ⑨ Heater
P417
Blue
Green
Red

DEF/CONV(DEF)
42PW23P
[SHEET-1]

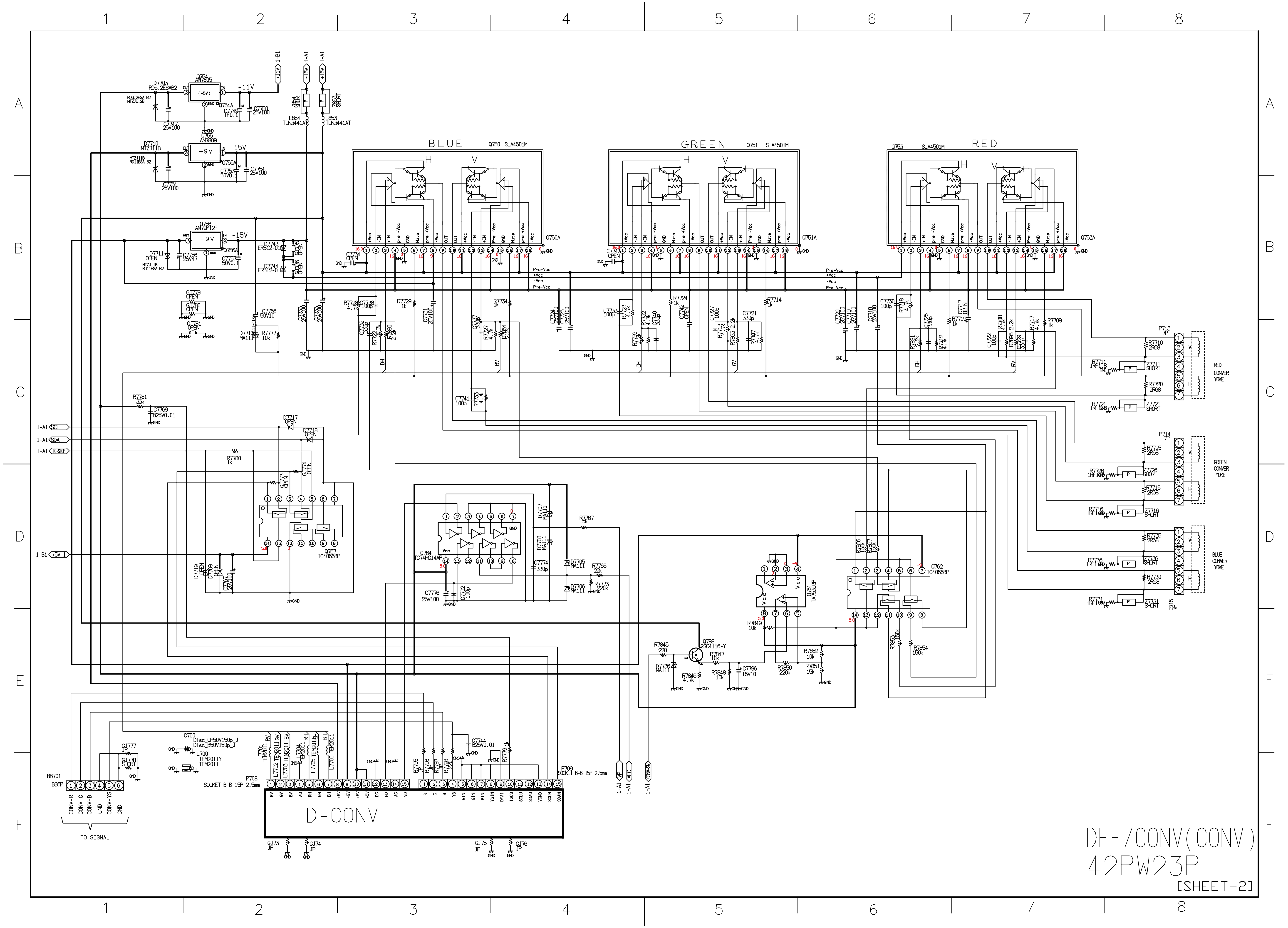


TO POWER
TO SIGNAL
BB82B
BB 16P BLUG
NC
X-RAY
15V
15V
15V
15V_2
GND
GND
GND
GND
-15V
-15V
-15V
NC
NC
NC
TUNER +32V
15V_2
15V
ODD/EVE
BB23B
2-A2 +16V
2-A2 -16V
2-F5 CONV-SW
2-F4 VP
2-F4 AFC
2-C1 SCL
2-C1 SDA
2-C1 IIC-STOP
2-D1 +5V-1
2-A2 +11V
BB65B
8P 2.5PJ-P
TO POWER
GND
NC
150V
IIC-STOP
SCL
SDA
R101
1R33k
⑧
T461 ⑨ Heater
50^ s/DIV.
10V/DIV.
POWER
+11V
GND
GND1
GND2
+7V
SANBY GND
STB-GND
POWER
RESET
+5V-1
AUDIO GND
AUDIO-GND
AUDIO Vcc
AUDIO-Vcc
BB80B
BB 16P BLUG
SIGNAL
STANBY GND
BB21B
BB 16P BLUG
TO SIGNAL
V-CEN
SCL2
SDA2
+9V-1
ABL-SW
BEND_COMP
ABL
BLK
AFC
VP
H-DRIVE
BB24B
BB 16P BLUG
C301 0.1uF
C307 50V2.2
C303 OPEN
Q302 TA8859CP
C302
CC02 OPEN
R306 15k
C308 22000pF
R302 100
C306
R307 100
R308 100
AGC
RAMP
T.C
Vin
GND
NC
SCL
SDA
EHT
EW
Vcc
EW FB
V.FB
V.D
C515 OPEN
D505 1N4148
R513 1/6P100
R515 1/6P10k
ABL
R241 1/6P39k_G
R244 1/6P100k
R243 1/6P39k_G
R242 1/6P39k_G
R246 1/6P10k
Q241 2SC2482FA-1
R245 1/6P12k
Q420 2SC2482
R420 10k
D420 1N4148
D421 EU2A
R247 1k
R934 1RF2.2
T461 TFB3091AD
Z450 TPA5010AH
L401 56u
D401 EU2A
R406 1W 472J
R405 100
C405 50V0.12
R421 1/6P22k
R404 1/6P3.3k
D402 EU2A
R407 1/2R10
R422 1/6P22k
D427 OPEN
R471 OPEN
C471 OPEN
R443 1/2W1
D406 S5295G
C446 250V33
GJ48 JP
Q409 2SC4081-Q
D492 R6.2E
Q408 2SA1576Q
GJ49 OPEN
R494 1/4W1.8kF
R492 1/4W3.3kF
R493 1/4W150F
R497 330
D491 MA111
R491 1k
R490 10k
R495 33k
R496 1/6P10k
D490 R6.2E
C491 16V10
TE482
TE481
R447 1W 473J
C448 160V330
R444 1R0.39
C445 PP_200V47n_J
R440 OPEN
⑥
L409 PL-100
R416 3R6.8k
R414 1/6P10
Q404 2SD2553(FA)
126
R412 2.2k
R413 3.3k
T401 TLN1098AH
C406 200V10
L405 TLN1015R
-17.6
Q404A
R408 2.2k
Q407 2SC4081-Q
R401 2.2k
Q406 2SC752GTM
C404 B1500p
D403 ERC06-15L
D405 ERC06-15L
C444 1500VH3900p
C443 1500VH4700p
R415 1k
Q405 2SC752GTM
34.4
0.3
⑤
C401 820
C402 390
⑦
R402 1k
Q402 2SC2482FA-1
R403 1R2.7k
C440 1500p
D461 ERD29-36J
C467 PP_630V12n_J
C468 PP_630V12n_J
L402 TLN3497AH
R462 10k
C464 DC100V3.3u
R475 10k
R477 3.3k
R479 10k
C481 16V100
R460 10k
R476 22k
R478 470k
R455 10k
C482 22000pF
R487 OPEN
R489 2.2k
R461 10k
R463 5.6k
C432 50V0.022
C433 50V0.047
R446 1/6P10k
L406 TLN3496AH
R409 3R22
R449 680
R410 3R22
L407 TEM2014
R480 22k
Q427 BA10393
R488 3.9k
C483 22000pF
Q426 TA75358P
R448 1/6P330k
R445 10k
R470 220k
C449 500V220
R469 100
L408 TEM2014
Q425 FET 2SK2920
D426 RD18MB2
R482 1/2R330
R481 4.7k
C484 B1000p
C466 B4700p
R464 4.7k
C465 B25V0.01
Q482 2SC4081-Q
R465 470k
R466 10k
R467 68k
C463 B25V0.01
Vcc
Vee
GND

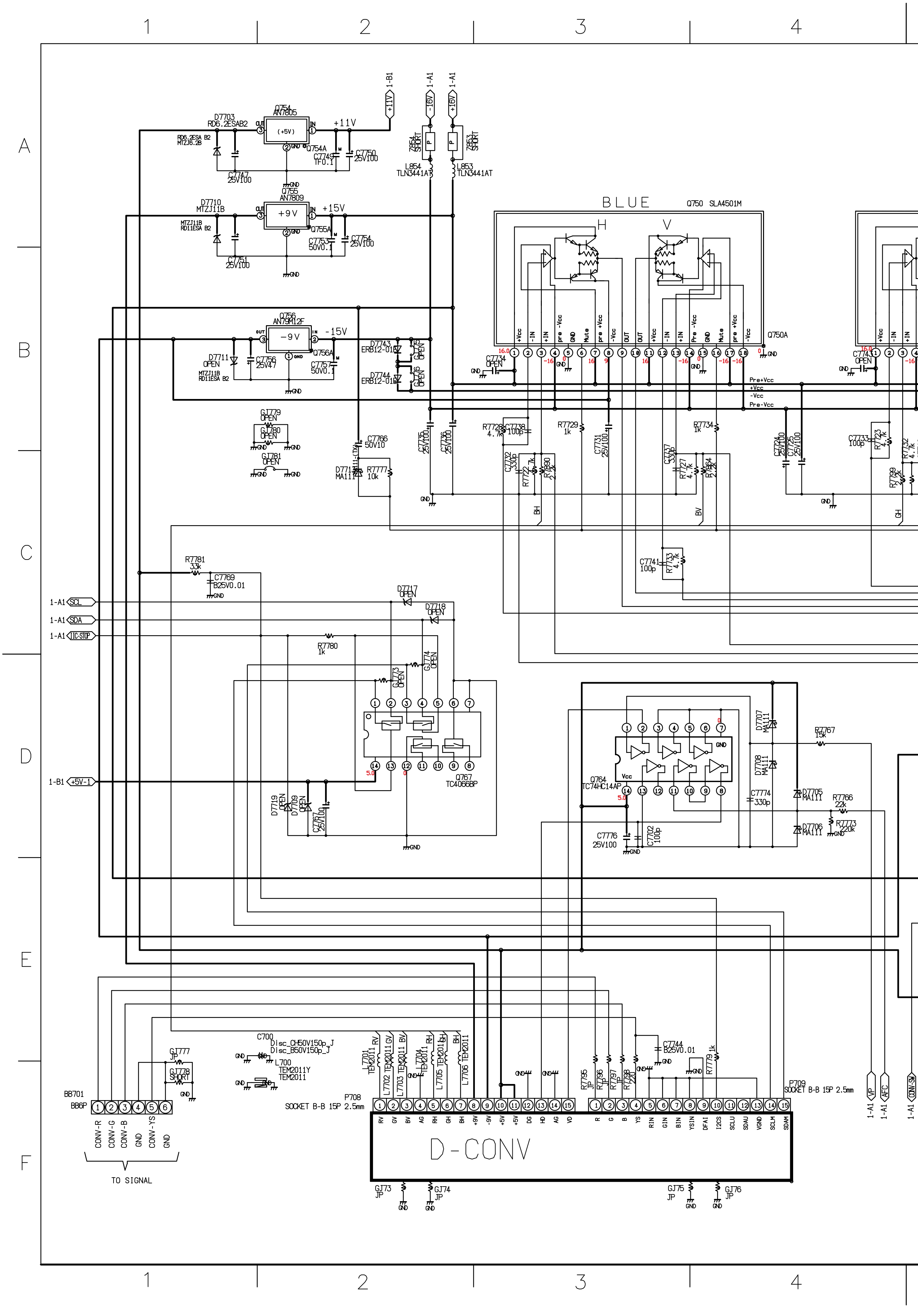

5
6
7
8
A
B
C
D
E
F
③ ④
Q301
1 5ms/DIV. 0.5V/DIV.
2 5ms/DIV. 20V/DIV.
④ in
② out
R371 82k
Q370 2SC4081Q
R374 100k
Q371 2SA1576Q
R373 82k
R378 3.3k
R377 JP
D370 MA111
R356 OPEN
R357 OPEN
R370 1k
C370 50V2.2
C371 0.1uF
R375 15k
R376 33k
Q372 2SC4081Q
R379 OPEN
Q311 OPEN
R358 OPEN
R372 3.3k
R336 1k
C323
Q301 LA7833S
Q312 OPEN
Q305 2SA1576Q
R334 1k
Q301A
VEE
OUT
IN
VCC
SHIELD CASE
SHIELD CASE
B301
B302
R325 2.2k
D308 MA8039-H
L302 TLN3299D
R335 1k
-15V
C320 50V100
C324 50V100
Q304 SG570ALFE2
C328 100V470p
C331 OPEN
C334 B470p
R346 1W 39
D306 ERB12-02
L304 TEM2011
C333 100V0.047u
R344 1W 27J
D305 ERB12-02
C314 0.1uF
R321 3.3k
C316 16V1000
CC01 B25V0.01
R468 15k
C315 16V1000
Q360 OPEN
R369 OPEN
L303 TLN3299D
R337 1/2W 1R2J
C325 TF0.22u100
+15V
C321 50V100
D302 EU2A
C332 50V220
R355 22k
TP-V 1P
R305 1R0.82
TP-G 1P
C338 16V33
R316 1k
Q307 2SC4081Q
R366 OPEN
R368 OPEN
R367 OPEN
C360 OPEN
C312
C319 0.47uF
V-FB
L310 PL-100
EHT
R311 10k
R313 1k
R331 1/6R30K
+9V-1
R361 10k
R363 4.7k
R312 10k
R314 47K
R362 10k
R364 15k
C311 B25V0.01
+15V
C336 B0.047
R360 10k
R365 1k
C310 50V100
Q306 TA75902P(J)
R301 10k
C305 0.1uF
R310 6.8K
R304 10k
C304 0.1uF
C309
R498 100
D310 MA111
D301 UDZS6.8B
R303 1k
EH-FB
R315 820
C313 16V100
R322 1/4W22k
R324 10k
R317 820k
R327 10k
R328 1/4W10K
R330 1/4W20K
C318 B2200p
R323 1/4W6.8k
CC33 100p
R326 10k
R329 10k
C317 B2200p
R320 1/4W4.7k
C326 0.47uF
R318 10
R332 1/4W4.7K
C327
C3260 0.47uF
Q304 TA75902P(J)
R333 10k
C322
EHT
TA75902P(J)
R338 10k
R341 47K
V-DQF
R343 1k
R350 8.2k
R349 3.9k
R342 15k
R340 820k
R339 47K
C335 0.1uF
C330 16V10
NP
C337 OPEN
R347 10k
C340 16V33
C329 50V10
R348 10k
C339 25V100
L311 PL-100
NC
GND
GND
GND
HEATER
HEATER
NC
NC
210V
TO CRT DRIVE
P917B 9P
P403 6P_5mm_5A
L464 TDY707MS (23231300)
Blue
R392 1W 561J
L463 TDY707MS (23231300)
P402 6P_5mm_5A
Green
R391 1W 561J
L462 TDY707MS (23231300)
Red
R390 1W 561J
P401 6P_5mm_5A
L441 TLN2203AG
R417 1/2RF68
L404 TLN3495AH
C417 250V2.2
GJ43 OPEN
GJ42 JP
L442 TLN3457AD
C416 250V0.033
R431 2R1k
R441 2R1k
C423 400V0.47
R442 2R1k
D413 PR-1H
D412 PR-1H
R432 1/2R270k
R433 1/2R270k
R411 2R27
T400 TLN2168AH
R419 1/2S1k
⑨
Z401 OPEN
C426 2kV2200B
R434 1/2R270k
R418 1R100k
C412 200V0.082
P414 PLUG 3P_5mm
Q400 2SC4686A
C415 2k1500
R435 4.7k
D425 EU2A
C460 250V4.7
⑥ Q404 Ⓑ
1 20^ s/DIV. 50V/DIV.
⑨ P417
1 5ms/DIV. 200V/DIV.
⑤ Q402
1 20^ s/DIV 0.5V/DIV. B
2 20^ s/DIV 50V/DIV. C
⑦ Q404 Ⓒ
1 20^ s/DIV. 500V/DIV.
GND

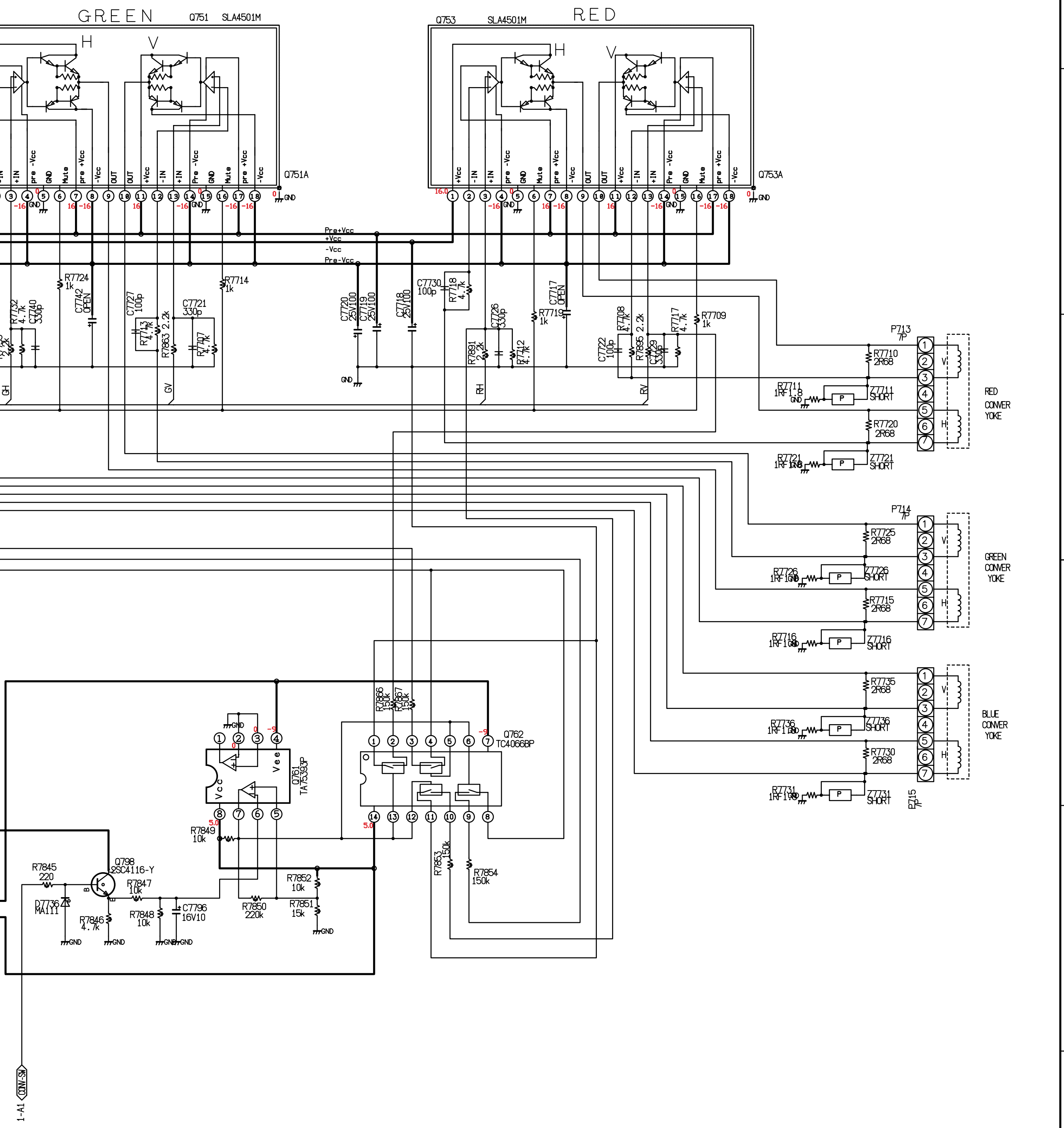
DEF/CONV(DEF)
42PW23P

[SHEET-1]


BLUE
GREEN
RED
Q750 SLA4501M
Q751 SLA4501M
Q753 SLA4501M
Q750A
Q751A
Q753A
H
V
Q754 AN7805
Q755 AN7809
Q756 AN79M12F
+11V
+15V
-15V
(+5V)
+9V
-9V
+11V 1-B1
-16V 1-A1
+16V 1-A1
L854 TLN3441AT
L853 TLN3441AT
Pre+Vcc
+Vcc
-Vcc
Pre-Vcc
Q767 TC4066BP
Q764 TC74HC14AP
Q761 TA75393P
Q762 TC4066BP
Q798 2SC4116-Y
1-A1 SCL
1-A1 SDA
1-A1 IIC-STOP
1-B1 +5V-1
P713 7P
P714 7P
P715 7P
RED CONVER YOKE
GREEN CONVER YOKE
BLUE CONVER YOKE
BB701 BB6P
CONV-R
CONV-G
CONV-B
GND
CONV-YS
GND
TO SIGNAL
P708 SOCKET B-B 15P 2.5mm
P709 SOCKET B-B 15P 2.5mm
D-CONV
RV
GV
BV
AG
RH
GH
BH
+9V
-9V
+5V
+5V
DG
HD
AG
VD
R
G
B
YS
RIN
GIN
BIN
YSIN
DFAI
I2CS
SCLU
SDAU
VGND
SCLM
SDAM
1-A1 VP
1-A1 AFC
1-A1 CONV-SW
C700 Disc_CH50V150p_J Disc_B50V150p_J
L700 TEM2011Y TEM2011
1
2
3
4
5
6
7
8
A
B
C
D
E
F

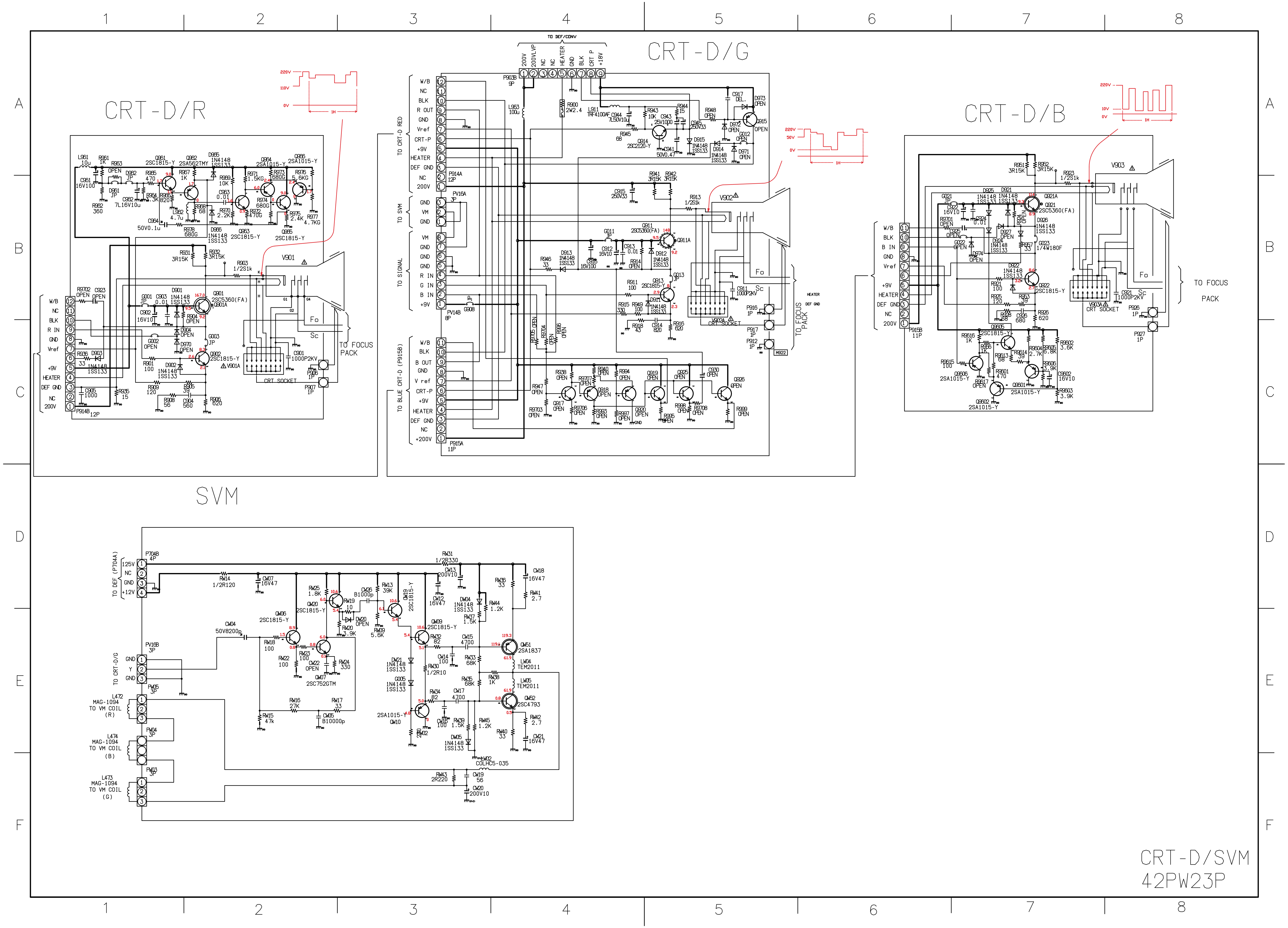
DEF/CONV(CONV)
42PW23P
[SHEET-2]


1
2
3
4
A
B
C
D
E
F
D7703
RD6.2ESAB2
RD6.2ESA B2
MTZJ6.2B
Q754
AN7805
(+5V)
Q754A
+11V
C7749
TF0.1
C7750
25V100
C7747
25V100
+11V
1-B1
-16V
1-A1
+16V
1-A1
7854
SHORT
7853
SHORT
L854
TLN3441AT
L853
TLN3441AT
D7710
MTZJ11B
MTZJ11B
RD11ESA B2
Q755
AN7809
+9V
+15V
Q755A
C7753
50V0.1
C7754
25V100
C7751
25V100
GND
BLUE
Q750 SLA4501M
H
V
+Vcc
-IN
+IN
pre -Vcc
GND
Mute
pre +Vcc
-Vcc
OUT
OUT
+Vcc
-IN
+IN
Pre -Vcc
GND
Mute
pre +Vcc
-Vcc
Q750A
Q756
AN79M12F
-9V
-15V
Q756A
D7711
OPEN
MTZJ11B
RD11ESA B2
C7756
25V47
C7757
50V0.1
D7743
ERB12-01E
D7744
ERB12-01E
GJ775
OPEN
GJ776
OPEN
C7734
OPEN
16.0
-16
0
16
9
16
-16
0
-16
-16
0
Pre+Vcc
+Vcc
-Vcc
Pre-Vcc
GJ779
OPEN
GJ780
OPEN
GJ781
OPEN
C7766
50V10
D7712
MA111
R7777
10k
C7735
25V100
C7736
25V100
R7728
4.7k
C7738
100p
R7729
1k
C7731
25V100
R7734
1k
C7732
330p
R7722
4.7k
R7730
2.2k
C7737
330p
R7727
4.7k
R7864
2.2k
C7724
25V100
C7725
25V100
C7733
100p
R7723
4.7k
R7732
4.7k
R7799
2.2k
C7743
OPEN
BH
BV
GH
C7741
100p
R7733
4.7k
R7781
33k
C7769
B25V0.01
1-A1 SCL
1-A1 SDA
1-A1 IIC-STOP
D7717
OPEN
D7718
OPEN
R7780
1k
GJ773
OPEN
GJ774
OPEN
Q767
TC4066BP
5.0
0
1-B1 +5V-1
D7719
OPEN
D7709
OPEN
C7767
25V100
D7707
MA111
D7708
MA111
Vcc
GND
Q764
TC74HC14AP
5.0
R7767
15k
C7774
330p
D7705
MA111
R7766
22k
D7706
MA111
R7773
220k
C7776
25V100
C7702
100p
C700
Disc_CH50V150p_J
Disc_B50V150p_J
L700
TEM2011Y
TEM2011
GJ777
JP
GJ778
SHORT
BB701
BB6P
CONV-R
CONV-G
CONV-B
GND
CONV-YS
GND
TO SIGNAL
L7701 TEM2011
RV
L7702 TEM2011
GV
L7703 TEM2011
BV
L7704 TEM2011
RH
L7705 TEM2011
GH
L7706 TEM2011
BH
P708
SOCKET B-B 15P 2.5mm
RV
GV
BV
AG
RH
GH
BH
+9V
-9V
+5V
+5V
DG
HD
AG
VD
R7795
JP
R7796
JP
R7797
JP
R7798
220
C7744
B25V0.01
R7779
1k
P709
SOCKET B-B 15P 2.5mm
R
G
B
YS
RIN
GIN
BIN
YSIN
DFA1
I2CS
SCLU
SDAU
VGND
SCLM
SDAM
D-CONV
GJ73
JP
GJ74
JP
GJ75
JP
GJ76
JP
1-A1 VP
1-A1 AFC
1-A1 CONV-SW
GND



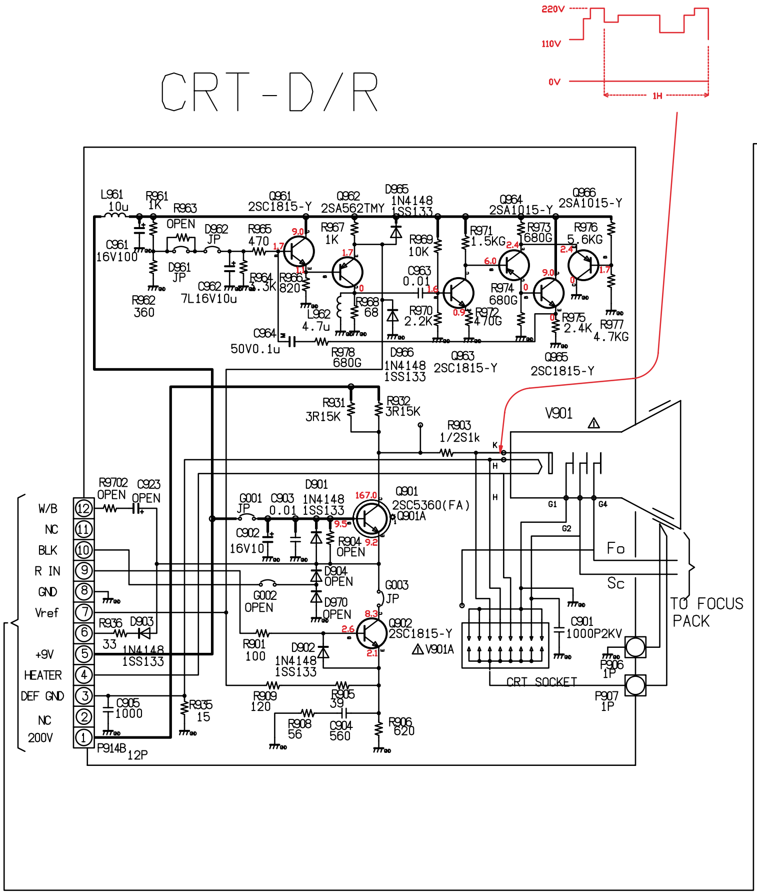
GREEN
Q751 SLA4501M
H
V
Q751A
RED
Q753 SLA4501M
Q753A
Pre+Vcc
+Vcc
-Vcc
Pre-Vcc
R7724 1k
R7714 1k
C7742 OPEN
C7727 100p
C7721 330p
R7713 4.7k
R7863 2.2k
R7707 4.7k
R7732 4.7k
C7740 330p
C7720 25V100
C7719 25V100
C7718 25V100
C7730 100p
R7718 4.7k
C7726 330p
C7717 OPEN
R7719 1k
R7891 2.2k
R7712 4.7k
C7722 100p
R7708 4.7k
R7895 2.2k
C7729 330p
R7717 4.7k
R7709 1k
GH
GV
RH
RV
GND
P713 7P
R7710 2R68
R7711 1RF1.8
Z7711 SHORT
R7720 2R68
R7721 1RF1.8
Z7721 SHORT
RED CONVER YOKE
P714 7P
R7725 2R68
R7726 1RF1.8
Z7726 SHORT
R7715 2R68
R7716 1RF1.8
Z7716 SHORT
GREEN CONVER YOKE
R7735 2R68
R7736 1RF1.8
Z7736 SHORT
R7730 2R68
R7731 1RF1.8
Z7731 SHORT
P715 7P
BLUE CONVER YOKE
Q761 TA75393P
Vcc
Vee
Q762 TC4066BP
R7866 150k
R7867 150k
R7849 10k
R7845 220
Q798 2SC4116-Y
R7847 10k
D7736 MA111
R7846 4.7k
R7848 10k
C7796 16V10
R7850 220k
R7852 10k
R7851 15k
R7853 150k
R7854 150k
1-A1 CONV-SW

DEF/CONV(CONV)
42PW23P
[SHEET-2]

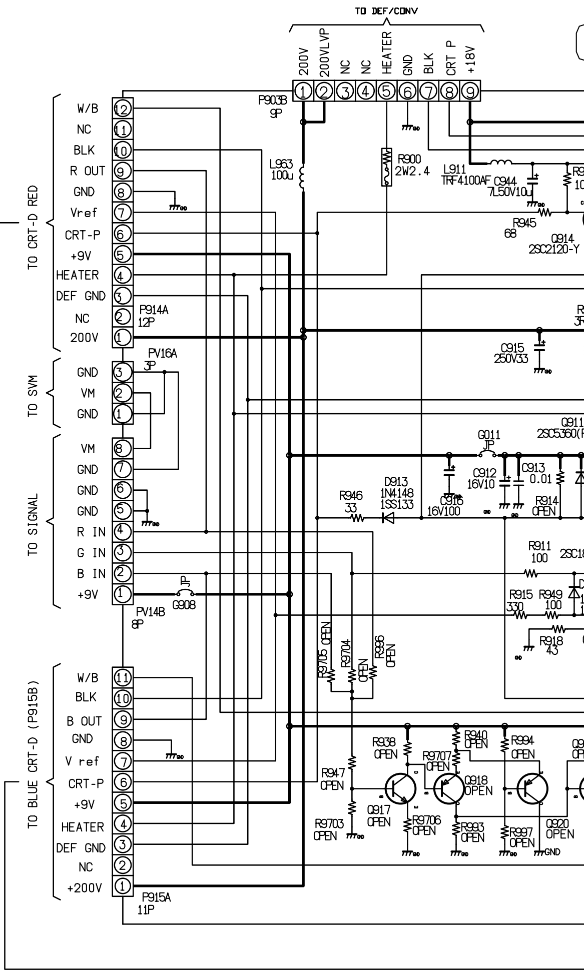

CRT-D/R
CRT-D/G
CRT-D/B
SVM
TO DEF/CONV
200V
200VLVP
NC
NC
HEATER
GND
BLK
CRT P
+18V
TO CRT-D RED
TO SVM
TO SIGNAL
TO BLUE CRT-D (P915B)
TO FOCUS PACK
CRT SOCKET
V901
V902
V903
Fo
Sc
220V
110V
0V
1H
50V
10V
TO DEF (P704A)
TO CRT-D/G
MAG-1094 TO VM COIL (R)
MAG-1094 TO VM COIL (B)
MAG-1094 TO VM COIL (G)
W/B
BLK
R IN
G IN
B IN
GND
Vref
+9V
HEATER
DEF GND
NC
200V
125V
+12V
VM
Y
2SC5360(FA)
2SC1815-Y
2SA1015-Y
2SA562TMY
2SC2120-Y
2SA1837
2SC4793
2SC752GTM
1N4148
1SS133
TEM2011
COLHC5-035
1
2
3
4
5
6
7
8
A
B
C
D
E
F

CRT-D/SVM
42PW23P

CRT-D/R

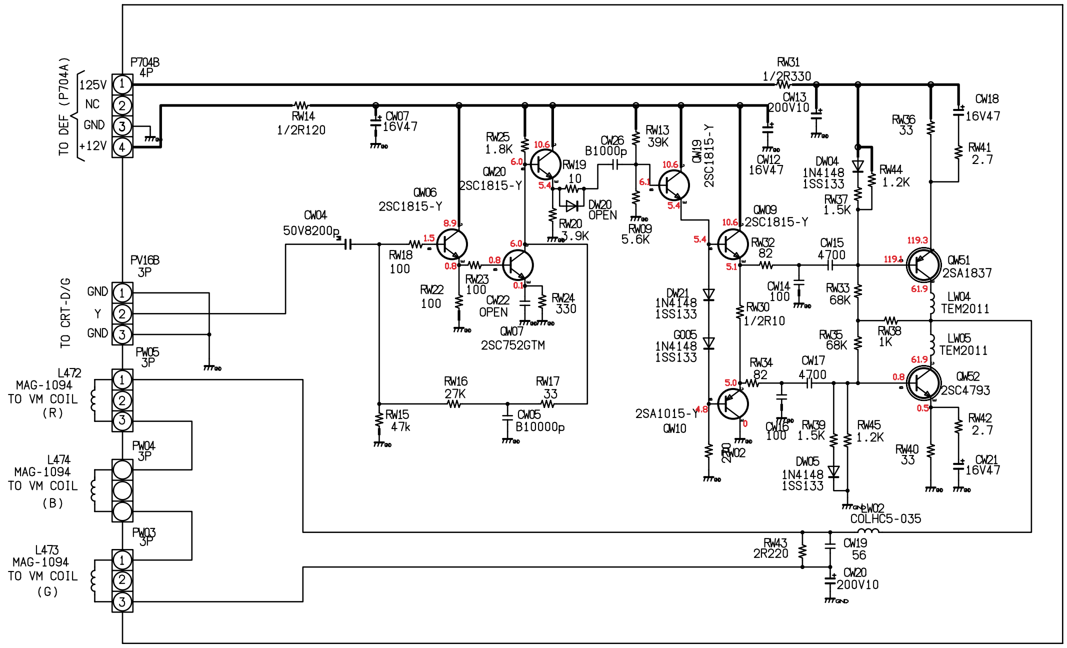


220V
110V
0V
1H
L961 10u
R961 1K
R963 OPEN
D962 JP
C961 16V100
D961 JP
R962 360
C962 7L16V10u
Q961 2SC1815-Y
Q962 2SA562TMY
D965 1N4148 1SS133
R965 470
R964 3.3K
R966 820
R967 1K
L962 4.7u
R968 68
R969 10K
C963 0.01
R970 2.2K
C964 50V0.1u
R978 680G
D966 1N4148 1SS133
Q963 2SC1815-Y
Q964 2SA1015-Y
R971 1.5KG
R973 680G
R972 470G
R974 680G
Q965 2SC1815-Y
Q966 2SA1015-Y
R976 5.6KG
R975 2.4K
R977 4.7KG
R931 3R15K
R932 3R15K
R903 1/2S1k
V901
K
H
G1
G2
G4
Fo
Sc
TO FOCUS PACK
R9702 OPEN
C923 OPEN
G001 JP
C903 0.01
D901 1N4148 1SS133
Q901 2SC5360(FA)
Q901A
C902 16V10
R904 OPEN
D904 OPEN
G002 OPEN
D970 OPEN
G003 JP
Q902 2SC1815-Y
V901A
R936 33
D903 1N4148 1SS133
R901 100
D902 1N4148 1SS133
R909 120
R905 39
R908 56
C904 560
R906 620
C905 1000
R935 15
C901 1000P2KV
CRT SOCKET
P906 1P
P907 1P
W/B
NC
BLK
R IN
GND
Vref
+9V
HEATER
DEF GND
NC
200V
P914B 12P
167.0
9.5
9.2
8.3
2.6
2.1
9.0
1.7
1.1
0
1.6
0.9
2.4
6.0
9.0
0
2.4
1.7

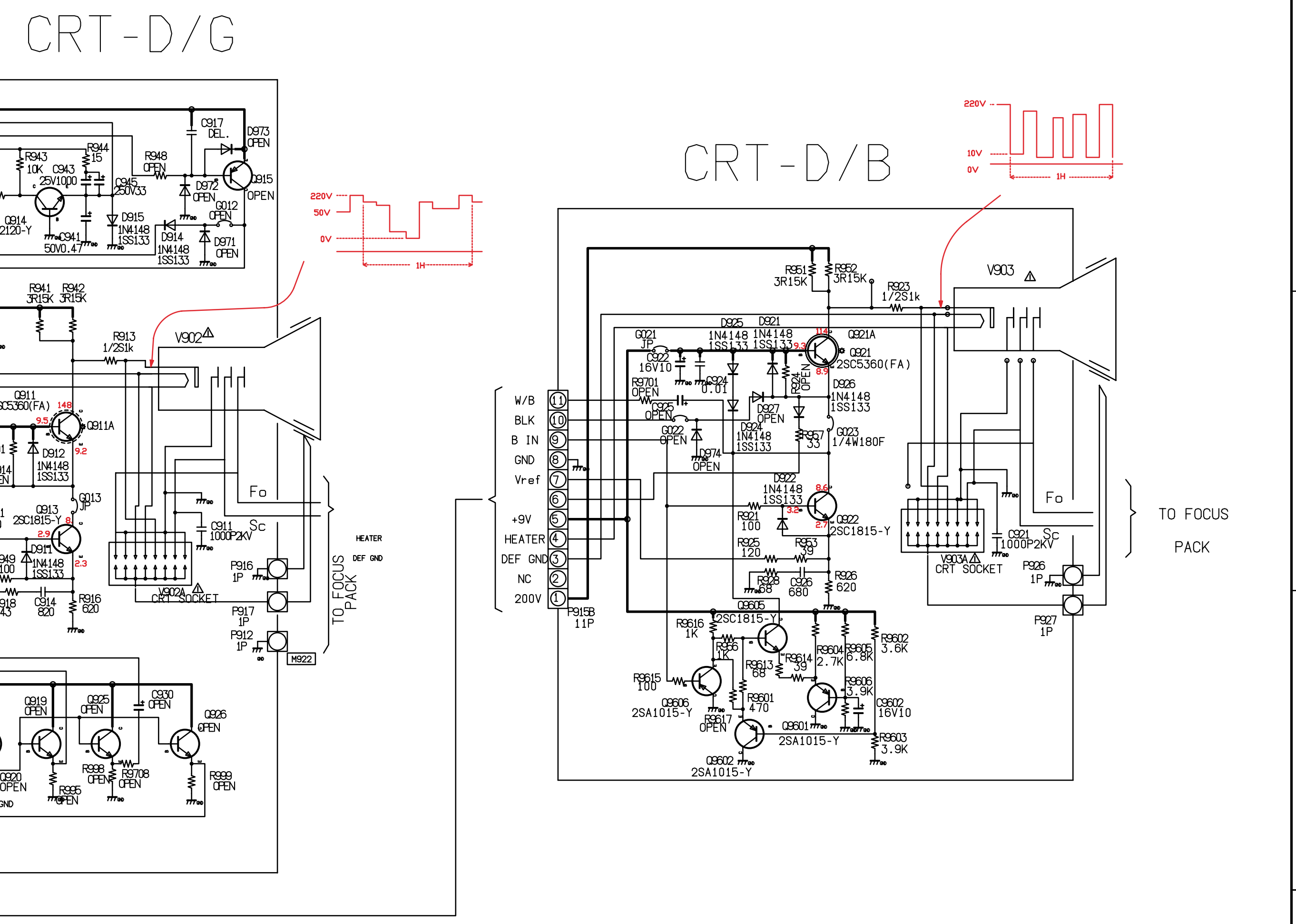


TO DEF/CONV
200V
200VLVP
NC
NC
HEATER
GND
BLK
CRT P
+18V
P903B 9P
TO CRT-D RED
W/B
NC
BLK
R OUT
GND
Vref
CRT-P
+9V
HEATER
DEF GND
NC
200V
P914A 12P
L963 100u
R900 2W2.4
L911 TRF4100AF
C944 7L50V10
R945 68
Q914 2SC2120-Y
C915 250V33
TO SVM
GND
VM
GND
PV16A 3P
TO SIGNAL
VM
GND
GND
GND
R IN
G IN
B IN
+9V
PV14B 8P
JP
G908
G011 JP
Q911 2SC5360(F
C912 16V10
C913 0.01
R914 OPEN
R946 33
D913 1N4148 1SS133
C916 16V100
R911 100
R915 330
R949 100
R918 43
R9705 OPEN
R9704
OPEN
R996 OPEN
TO BLUE CRT-D (P915B)
W/B
BLK
B OUT
GND
V ref
CRT-P
+9V
HEATER
DEF GND
NC
+200V
P915A 11P
R938 OPEN
R940 OPEN
R9707 OPEN
R994 OPEN
R947 OPEN
Q918 OPEN
Q917 OPEN
R9703 OPEN
R9706 OPEN
R993 OPEN
R997 OPEN
Q920 OPEN

SVM

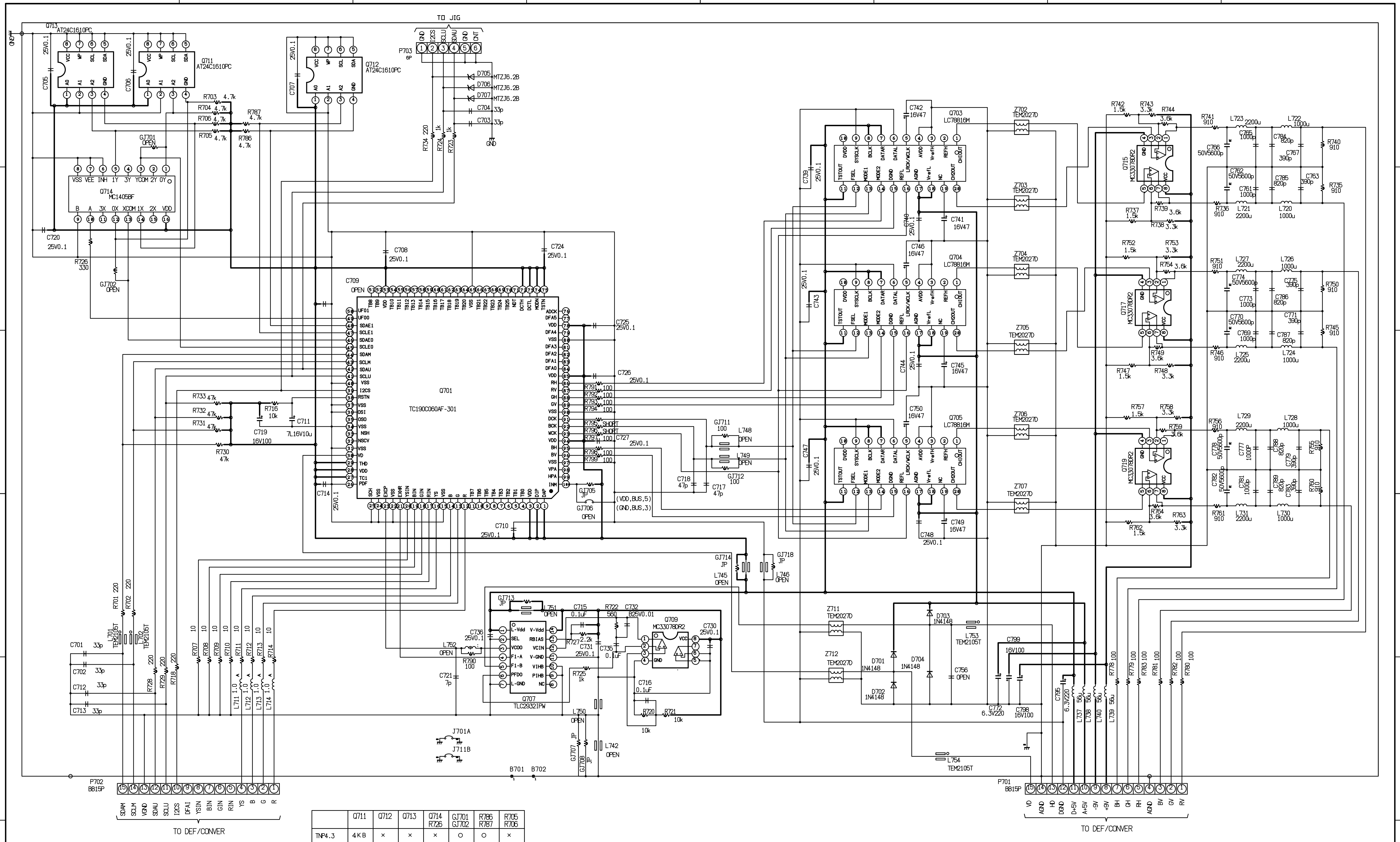


TO DEF (P704A)
125V
NC
GND
+12V
P704B 4P
RW14 1/2R120
CW07 16V47
RW31 1/2R330
CW13 200V10
CW18 16V47
RW36 33
RW41 2.7
RW25 1.8K
QW20 2SC1815-Y
RW19 10
CW26 B1000p
RW13 39K
QW19 2SC1815-Y
CW12 16V47
DW04 1N4148 1SS133
RW44 1.2K
RW37 1.5K
QW06 2SC1815-Y
DW20 OPEN
RW20 3.9K
RW09 5.6K
QW09 2SC1815-Y
CW04 50V8200p
RW18 100
RW23 100
RW22 100
CW22 OPEN
RW24 330
QW07 2SC752GTM
RW32 82
CW15 4700
QW51 2SA1837
LW04 TEM2011
TO CRT-D/G
GND
Y
GND
PV16B 3P
DW21 1N4148 1SS133
G005 1N4148 1SS133
RW30 1/2R10
CW14 100
RW33 68K
RW35 68K
RW38 1K
LW05 TEM2011
L472 MAG-1094 TO VM COIL (R)
PW05 3P
RW34 82
CW17 4700
QW52 2SC4793
RW16 27K
RW17 33
RW15 47k
CW05 B10000p
2SA1015-Y QW10
RW02 220
CW16 100
RW39 1.5K
RW45 1.2K
RW42 2.7
RW40 33
CW21 16V47
DW05 1N4148 1SS133
L474 MAG-1094 TO VM COIL (B)
PW04 3P
LW02 COLHC5-035
L473 MAG-1094 TO VM COIL (G)
PW03 3P
RW43 2R220
CW19 56
CW20 200V10
8.9
1.5
0.8
10.6
6.0
5.4
6.0
0.8
0.1
10.6
6.1
5.4
10.6
5.4
5.1
119.3
119.4
61.9
61.9
0.8
0.5
5.0
4.8
0



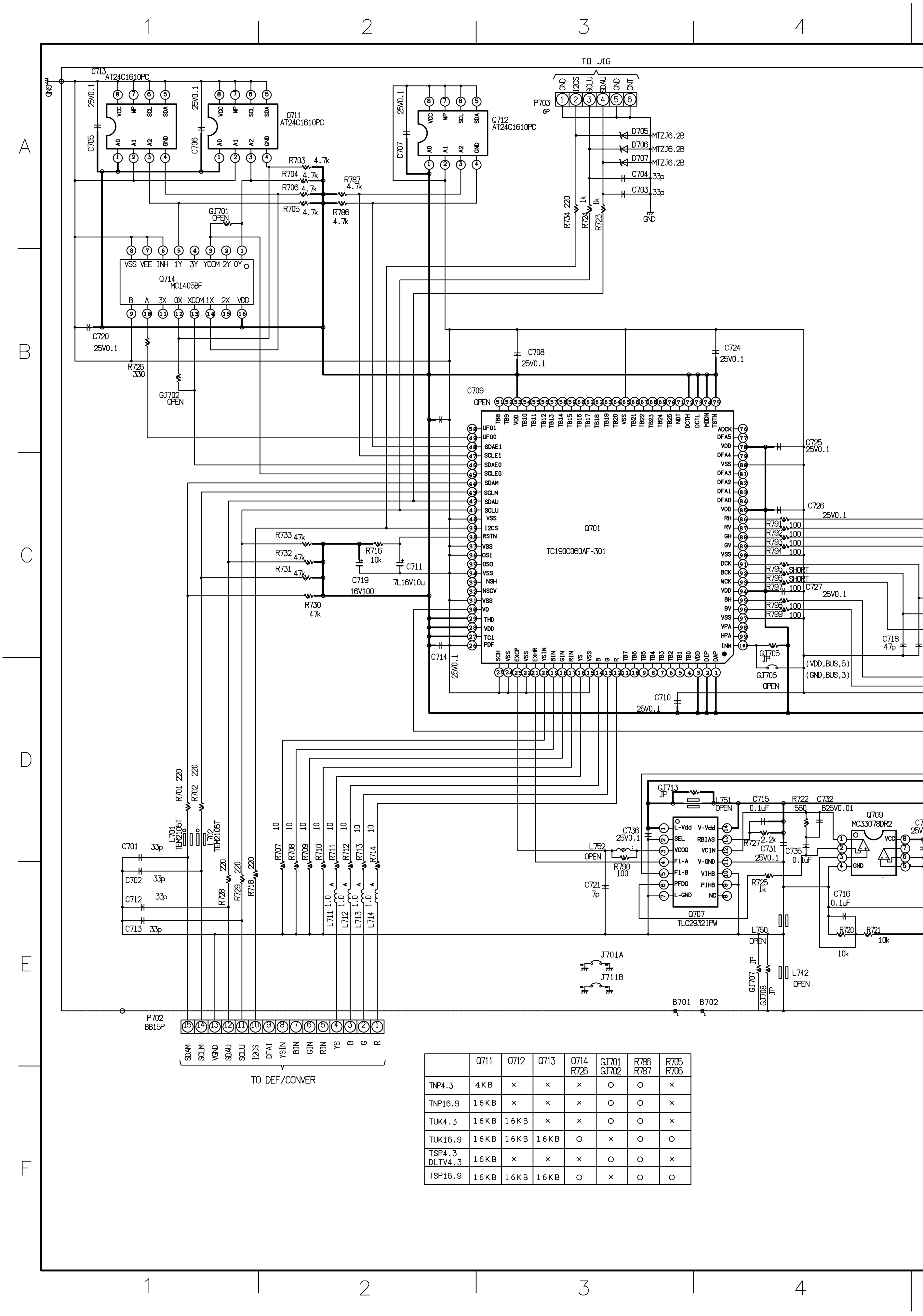
CRT-D/G
CRT-D/B
C917 DEL.
D973 OPEN
R943 10K
C943 25V1000
R944 15
R948 OPEN
C945 250V33
D972 OPEN
Q915 OPEN
Q914 2120-Y
C941 50V0.47
D915 1N4148 1SS133
D914 1N4148 1SS133
Q012 OPEN
D971 OPEN
220V
50V
0V
1H
R941 3R15K
R942 3R15K
R913 1/2S1k
V902
Q911 2SC5360(FA)
Q911A
D912 1N4148 1SS133
Q013 JP
Q913 2SC1815-Y
D911 1N4148 1SS133
C911 1000P2KV
Fo
Sc
V902A CRT SOCKET
C914 820
R916 620
P916 1P
P917 1P
P912 1P
M922
HEATER
DEF GND
TO FOCUS PACK
Q919 OPEN
Q925 OPEN
C930 OPEN
Q926 OPEN
Q920 OPEN
R998 OPEN
R9708 OPEN
R995 OPEN
R999 OPEN
220V
10V
0V
1H
R951 3R15K
R952 3R15K
R923 1/2S1k
V903
D925 1N4148 1SS133
D921 1N4148 1SS133
Q921A
Q021 JP
C922 16V10
Q921 2SC5360(FA)
R9701 OPEN
C924 0.01
R924 OPEN
D926 1N4148 1SS133
C925 OPEN
D927 OPEN
Q022 OPEN
D924 1N4148 1SS133
R957 33
Q023 1/4W180F
D974 OPEN
W/B
BLK
B IN
GND
Vref
+9V
HEATER
DEF GND
NC
200V
11
10
9
8
7
6
5
4
3
2
1
P915B 11P
D922 1N4148 1SS133
R921 100
Q922 2SC1815-Y
R925 120
R953 39
R928 68
C926 680
R926 620
Fo
Sc
C921 1000P2KV
V903A CRT SOCKET
P926 1P
P927 1P
TO FOCUS PACK
Q9605 2SC1815-Y
R9616 1K
R956 1K
R9614 39
R9613 68
R9604 2.7K
R9605 6.8K
R9602 3.6K
R9615 100
Q9606 2SA1015-Y
R9601 470
R9606 3.9K
C9602 16V10
R9617 OPEN
Q9601 2SA1015-Y
R9603 3.9K
Q9602 2SA1015-Y

CRT-D/SVM
42PW23P


TO JIG
P703 6P
GND I2CS SCLU SDAU GND CNT
Q713 AT24C1610PC
Q711 AT24C1610PC
Q712 AT24C1610PC
Q714 MC14058F
D705 MTZJ6.2B
D706 MTZJ6.2B
D707 MTZJ6.2B
C704 33p
C703 33p
Q701
TC190C060AF-301
C709 OPEN
C708 25V0.1
C724 25V0.1
C725 25V0.1
C726 25V0.1
C727 25V0.1
C710 25V0.1
C714 25V0.1
GJ701 OPEN
GJ702 OPEN
R726 330
R733 47k
R732 47k
R731 47k
R730 47k
R716 10k
C719 16V100
C711 7L16V10u
GJ711 100
GJ712 100
L748 OPEN
L749 OPEN
C718 47p
C717 47p
GJ705 JP
GJ706 OPEN
(VDD,BUS,5)
(GND,BUS,3)
Q703 LC78816M
Q704 LC78816M
Q705 LC78816M
C742 16V47
C741 16V47
C746 16V47
C745 16V47
C750 16V47
C749 16V47
Z702 TEM2027D
Z703 TEM2027D
Z704 TEM2027D
Z705 TEM2027D
Z706 TEM2027D
Z707 TEM2027D
Q715 MC33078DR2
Q717 MC33078DR2
Q719 MC33078DR2
GJ714 JP
GJ718 JP
L745 OPEN
L746 OPEN
GJ713 JP
L751 OPEN
C715 0.1uF
R722 560
C732 B25V0.01
Q709 MC33078DR2
C730 25V0.1
C736 25V0.1
L752 OPEN
R790 100
C721 7p
Q707 TLC2932IPW
C731 25V0.1
C735 0.1uF
R725 1k
C716 0.1uF
R720 10k
R721 10k
L750 OPEN
GJ707 JP
GJ708 JP
L742 OPEN
J701A
J711B
B701
B702
Z711 TEM2027D
Z712 TEM2027D
D701 1N4148
D702 1N4148
D703 1N4148
D704 1N4148
L753 TEM2105T
C799 16V100
C756 OPEN
C772 6.3V220
C798 16V100
C795 6.3V220
L754 TEM2105T
L701 TEM2105T
L702 TEM2105T
C701 33p
C702 33p
C712 33p
C713 33p
P702 B815P
SDAM SCLM VDND SDAU SCLU I2CS DFA1 YSIN BIN GIN RIN YS B G R
TO DEF/CONVER
P701 B815P
VD AGND HD DGND D+5V A+5V -5V -9V BH GH RH AGND BV GV RV
TO DEF/CONVER

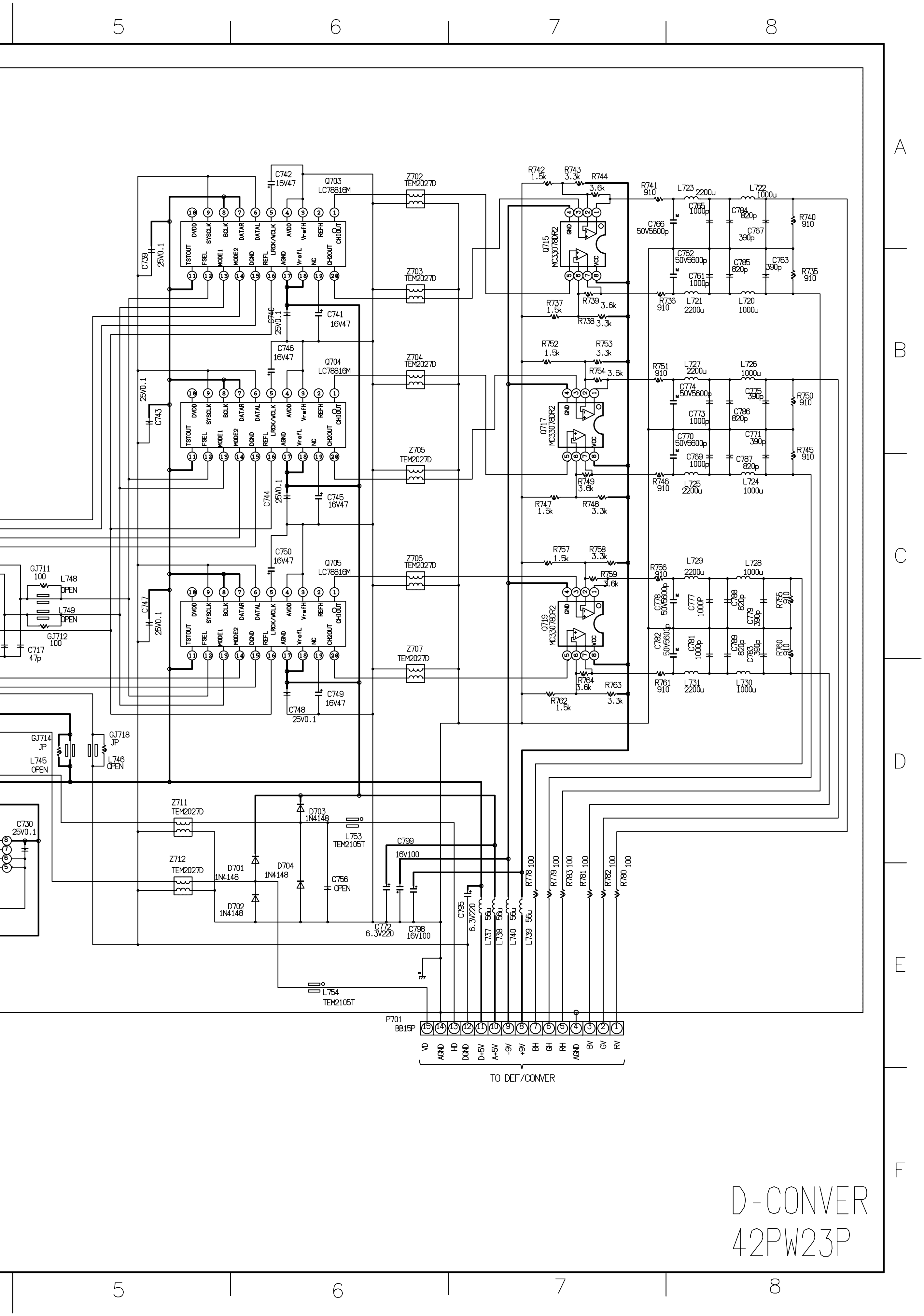
	Q711	Q712	Q713	Q714 R726	GJ701 GJ702	R786 R787	R705 R706
TNP4.3	4KB	×	×	×	○	○	×
TNP16.9	16KB	×	×	×	○	○	×
TUK4.3	16KB	16KB	×	×	○	○	×
TUK16.9	16KB	16KB	16KB	○	×	○	○
TSP4.3 DLTV4.3	16KB	×	×	×	○	○	×
TSP16.9	16KB	16KB	16KB	○	×	○	○

D-CONVER
42PW23P

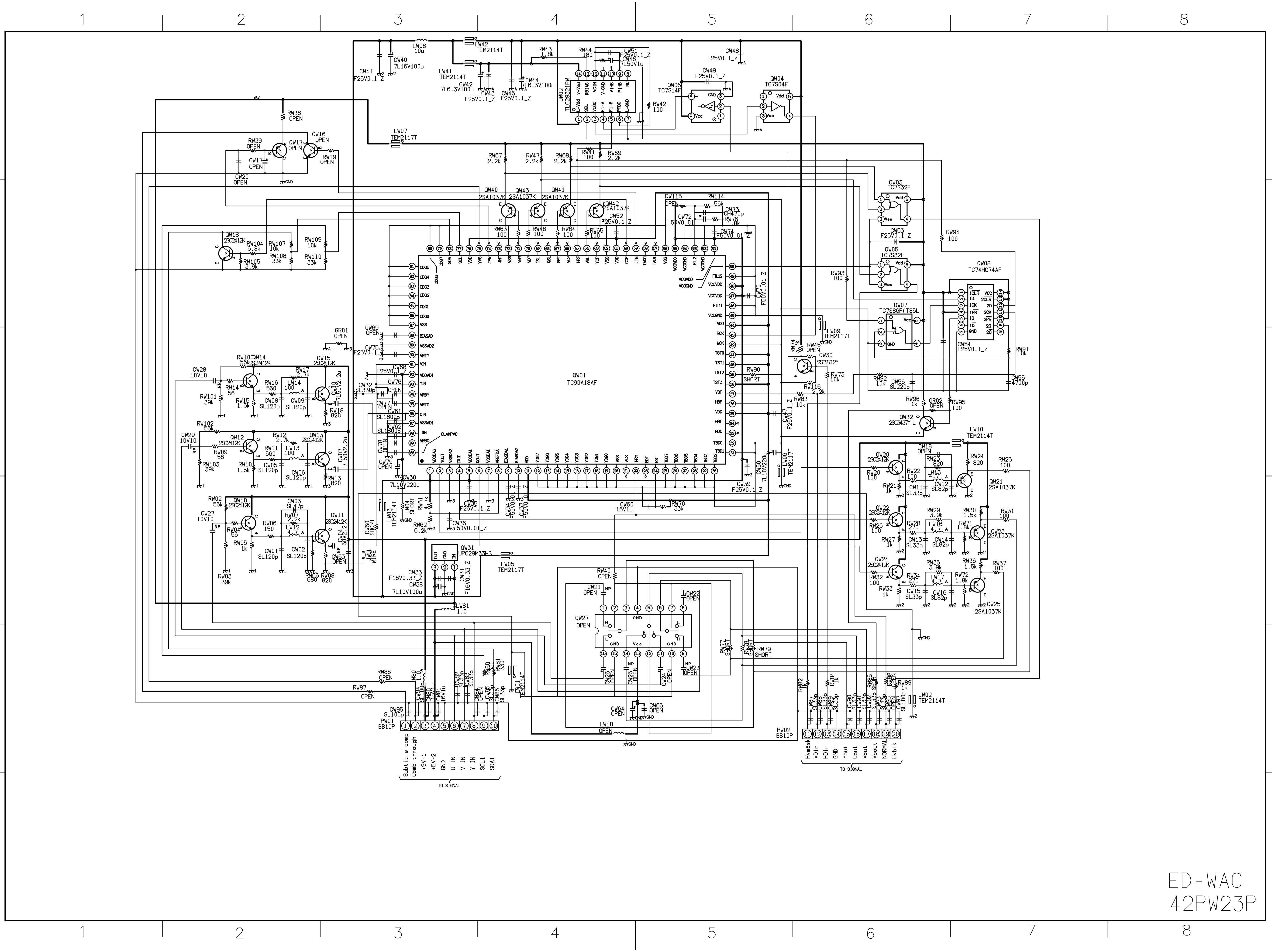


1
2
3
4
A
B
C
D
E
F
TO JIG
P703
6P
GND
I2CS
SCLU
SDAU
GND
CNT
D705 MTZJ6.2B
D706 MTZJ6.2B
D707 MTZJ6.2B
C704 33p
C703 33p
R734 220
R724 1k
R723 1k
Q713 AT24C1610PC
Q711 AT24C1610PC
Q712 AT24C1610PC
VCC
WP
SCL
SDA
A0
A1
A2
GND
C705 25V0.1
C706 25V0.1
C707 25V0.1
R703 4.7k
R704 4.7k
R706 4.7k
R705 4.7k
R787 4.7k
R786 4.7k
GJ701 OPEN
Q714 MC1405BF
VSS VEE INH 1Y 3Y YCOM 2Y 0Y
B A 3X 0X XCOM 1X 2X VDD
C720 25V0.1
R726 330
GJ702 OPEN
C708 25V0.1
C724 25V0.1
C709 OPEN
Q701
TC190C060AF-301
UF01
UF00
SDAE1
SCLE1
SDAE0
SCLE0
SDAM
SCLM
SDAU
SCLU
VSS
I2CS
RSTN
OSI
OSO
NSH
NSCV
VD
THD
VDD
TC1
PDF
TB8 TB9 VDD TB10 TB11 TB12 TB13 TB14 TB15 TB16 TB17 TB18 TB19 TB20 VSS TB21 TB22 TB23 TB24 TB25 NOT DCTH DCTL MODN TSTN
ADCK
DFA5
DFA4
DFA3
DFA2
DFA1
DFA0
RH
RV
GH
GV
DCK
BCK
WCK
BH
BV
VPA
HPA
INM
SCH VSS EXCP VSS EXHR YSIN BIN GIN RIN YS VSS B G R TB7 TB6 TB5 TB4 TB3 TB2 TB1 TB0 VDD DIP DAP
C725 25V0.1
C726 25V0.1
C727 25V0.1
R791 100
R792 100
R793 100
R794 100
R795 SHORT
R796 SHORT
R797 100
R798 100
R799 100
C718 47p
GJ705 JP
GJ706 OPEN
(VDD,BUS,5)
(GND,BUS,3)
C710 25V0.1
C714 25V0.1
R733 47k
R732 47k
R731 47k
R730 47k
R716 10k
C719 16V100
C711 7L16V10u
R701 220
R702 220
L701 TEM2105T
L702 TEM2105T
C701 33p
C702 33p
C712 33p
C713 33p
R728 220
R729 220
R718 220
R707 10
R708 10
R709 10
R710 10
R711 10
R712 10
R713 10
R714 10
L711 1.0
L712 1.0
L713 1.0
L714 1.0
GJ713 JP
L751 OPEN
C715 0.1uF
R722 560
C732 B25V0.01
Q709 MC33078DR2
C736 25V0.1
L752 OPEN
R790 100
C721 7p
Q707 TLC2932IPW
L-Vdd SEL VCOO F1-A F1-B PFDO L-GND
V-Vdd RBIAS VCIN V-GND VIHB PIHB NC
R727 2.2k
C731 25V0.1
C735 0.1uF
R725 1k
C716 0.1uF
R720 10k
R721 10k
L750 OPEN
L742 OPEN
GJ707 JP
GJ708 JP
J701A
J711B
B701
B702
P702
BB15P
SDAM SCLM VGND SDAU SCLU I2CS DFAI YSIN BIN GIN RIN YS B G R
TO DEF/CONVER

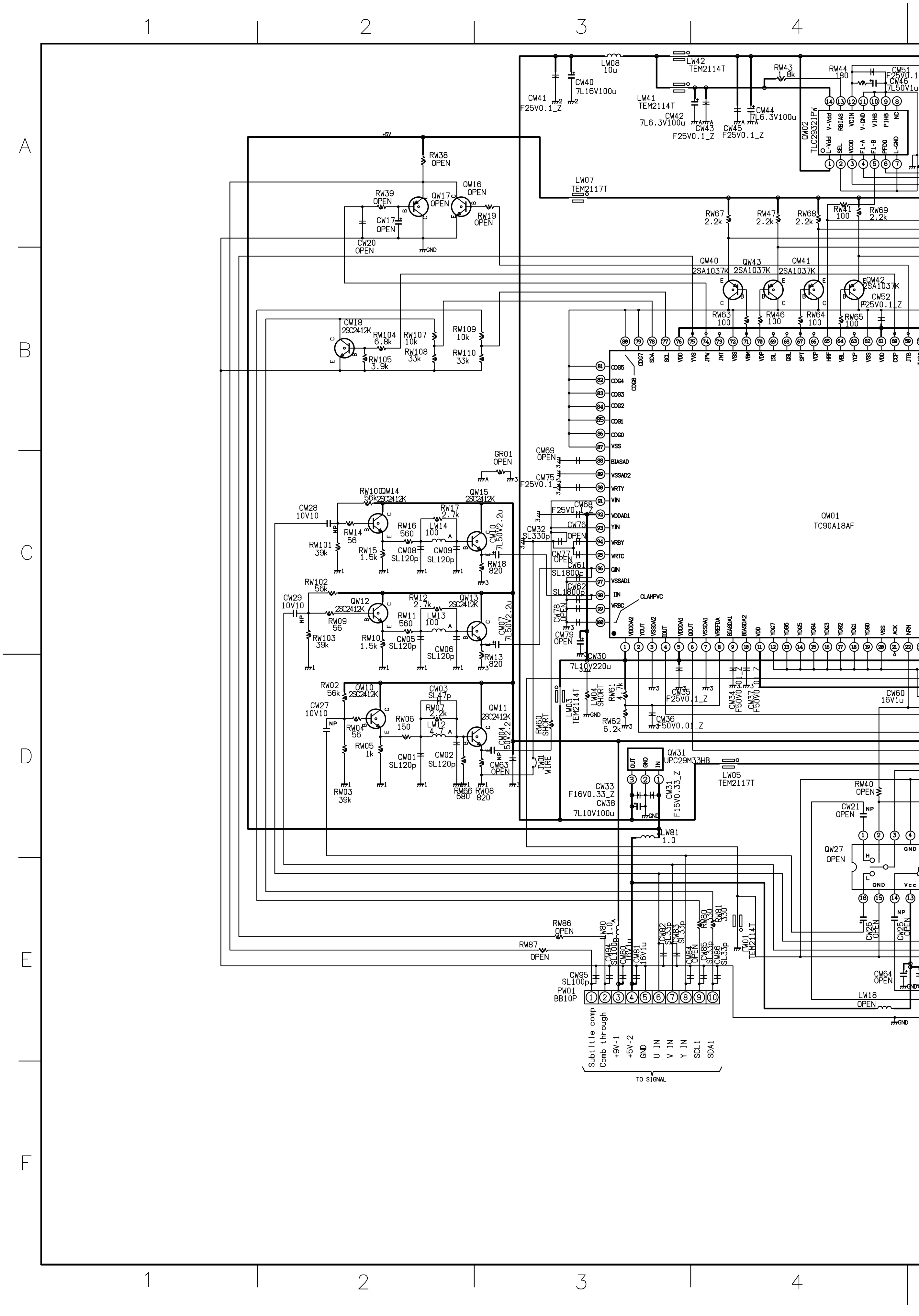
	Q711	Q712	Q713	Q714 R726	GJ701 GJ702	R786 R787	R705 R706
TNP4.3	4KB	×	×	×	○	○	×
TNP16.9	16KB	×	×	×	○	○	×
TUK4.3	16KB	16KB	×	×	○	○	×
TUK16.9	16KB	16KB	16KB	○	×	○	○
TSP4.3 DLTV4.3	16KB	×	×	×	○	○	×
TSP16.9	16KB	16KB	16KB	○	×	○	○


5
6
7
8
A
B
C
D
E
F
C742 16V47
Q703 LC78816M
Z702 TEM2027D
Z703 TEM2027D
C739 25V0.1
C740 25V0.1
C741 16V47
C746 16V47
Q704 LC78816M
Z704 TEM2027D
Z705 TEM2027D
C743 25V0.1
C744 25V0.1
C745 16V47
C750 16V47
Q705 LC78816M
Z706 TEM2027D
Z707 TEM2027D
C747 25V0.1
C748 25V0.1
C749 16V47
DVDD
SYSCLK
BCLK
DATAR
DATAL
LRCK/WCLK
AVDD
VrefH
REFH
CH1OUT
TSTOUT
FSEL
MODE1
MODE2
DGND
REFL
AGND
VrefL
NC
CH2OUT
GJ711 100
L748 OPEN
L749 OPEN
GJ712 100
C717 47p
GJ714 JP
L745 OPEN
GJ718 JP
L746 OPEN
C730 25V0.1
R742 1.5k
R743 3.3k
R744 3.6k
Q715 MC33078DR2
R737 1.5k
R739 3.6k
R738 3.3k
R741 910
L723 2200u
L722 1000u
C765 1000p
C784 820p
C767 390p
C766 50V5600p
R740 910
C762 50V5600p
C785 820p
C763 390p
C761 1000p
R735 910
R736 910
L721 2200u
L720 1000u
R752 1.5k
R753 3.3k
R754 3.6k
Q717 MC33078DR2
R751 910
L727 2200u
L726 1000u
C774 50V5600p
C775 390p
C773 1000p
C786 820p
R750 910
C770 50V5600p
C771 390p
C769 1000p
C787 820p
R745 910
R746 910
L725 2200u
L724 1000u
R749 3.6k
R747 1.5k
R748 3.3k
R757 1.5k
R758 3.3k
R759 3.6k
Q719 MC33078DR2
R756 910
L729 2200u
L728 1000u
C778 50V5600p
C777 1000P
C788 820p
C779 390p
R755 910
C782 50V5600p
C781 1000p
C789 820p
C783 390p
R760 910
R761 910
L731 2200u
L730 1000u
R764 3.6k
R763 3.3k
R762 1.5k
GND
VCC
Z711 TEM2027D
Z712 TEM2027D
D703 1N4148
L753 TEM2105T
D701 1N4148
D704 1N4148
D702 1N4148
C756 OPEN
C799 16V100
C772 6.3V220
C798 16V100
C795 6.3V220
L737 56u
L738 56u
L740 56u
L739 56u
R778 100
R779 100
R783 100
R781 100
R782 100
R780 100
L754 TEM2105T
P701 BB15P
VD
AGND
HD
DGND
D+5V
A+5V
-9V
+9V
BH
GH
RH
AGND
BV
GV
RV
TO DEF/CONVER

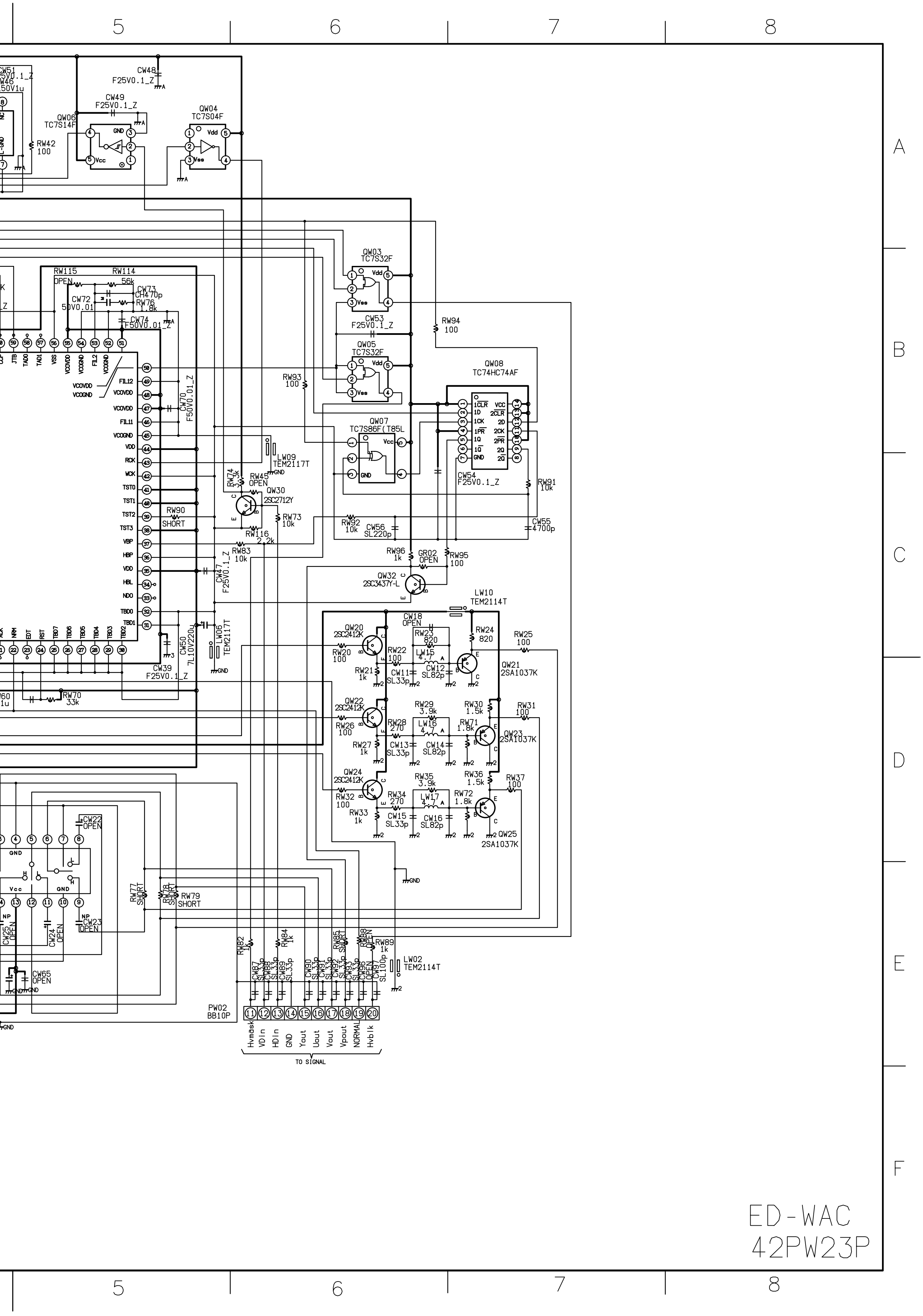
D-CONVER
42PW23P


QW01
TC90A18AF
QW02
TLC2932IPW
QW03
TC7S32F
QW04
TC7S04F
QW05
TC7S32F
QW06
TC7S14F
QW07
TC7S86F(T85L
QW08
TC74HC74AF
QW27
OPEN
QW31
UPC29M33HB
QW30
2SC2712Y
QW32
2SC3437Y-L
QW40
2SA1037K
QW41
2SA1037K
QW42
2SA1037K
QW43
2SA1037K
QW20
2SC2412K
QW21
2SA1037K
QW22
2SC2412K
QW23
2SA1037K
QW24
2SC2412K
QW25
2SA1037K
QW18
2SC2412K
LW07
TEM2117T
LW08
10u
LW41
TEM2114T
LW42
TEM2114T
LW10
TEM2114T
LW81
1.0
LW18
OPEN
LW02
TEM2114T
PW01
BB10P
Subtitle comp
Comb through
+9V-1
+5V-2
GND
U IN
V IN
Y IN
SCL1
SDA1
TO SIGNAL
PW02
BB10P
Hvmask
VDin
HDin
GND
Yout
Uout
Vout
Vpout
NORMAL
Hvblk
TO SIGNAL
GND
+5V
1
2
3
4
5
6
7
8
A
B
C
D
E
F

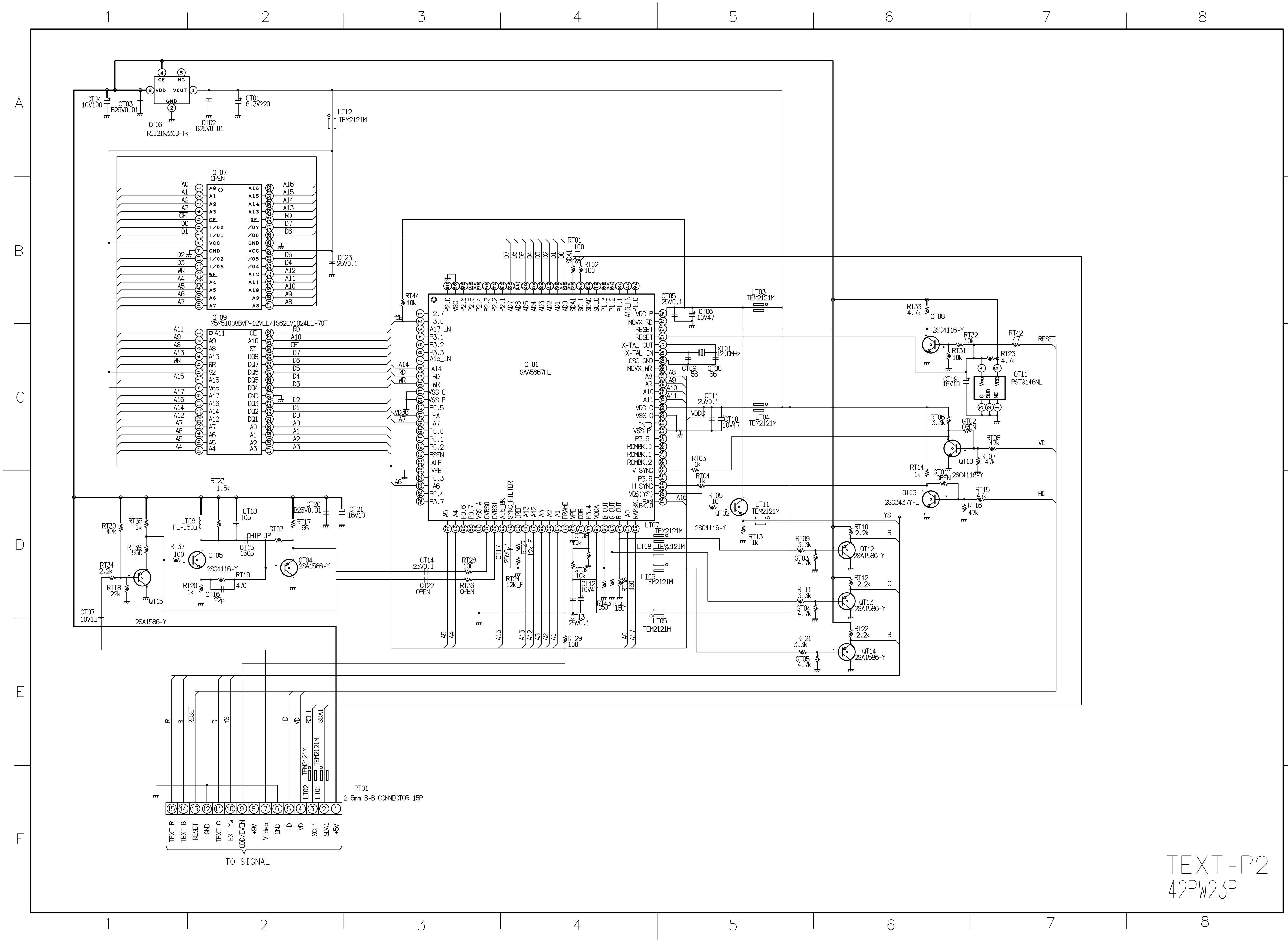
ED-WAC
42PW23P



QW01
TC90A18AF
QW02
TLC2932IPW
QW31
UPC29M33HB
PW01
BB10P
Subtitle comp
Comb through
+9V-1
+5V-2
GND
U IN
V IN
Y IN
SCL1
SDA1
TO SIGNAL
QW40
2SA1037K
QW43
2SA1037K
QW41
2SA1037K
QW42
2SA1037K
QW18
2SC2412K
QW14
2SC2412K
QW15
2SC2412K
QW12
2SC2412K
QW13
2SC2412K
QW10
2SC2412K
QW11
2SC2412K
QW16
OPEN
QW17
OPEN
QW27
OPEN
LW08
10u
LW42
TEM2114T
LW41
TEM2114T
LW07
TEM2117T
LW03
TEM2114T
LW05
TEM2117T
LW01
TEM2114T
LW81
1.0
LW80
1.0
LW18
OPEN
LW14
100
LW13
100
LW12
4.7
CW40
7L16V100u
CW41
F25V0.1_Z
CW42
7L6.3V100u
CW43
F25V0.1_Z
CW44
7L6.3V100u
CW45
F25V0.1_Z
CW46
7L50V1u
CW51
F25V0.1
CW52
F25V0.1_Z
RW43
1.8k
RW44
180
RW38
OPEN
RW39
OPEN
CW17
OPEN
CW20
OPEN
RW19
OPEN
RW67
2.2k
RW47
2.2k
RW68
2.2k
RW41
100
RW69
2.2k
RW63
100
RW46
100
RW64
100
RW65
100
RW104
6.8k
RW105
3.9k
RW107
10k
RW108
33k
RW109
10k
RW110
33k
GR01
OPEN
CW69
OPEN
CW75
F25V0.1
CW68
F25V0.1
CW76
OPEN
CW32
SL330p
CW77
OPEN
CW61
SL1800p
CW62
SL1800p
CW78
OPEN
CW79
OPEN
CW30
7L10V220u
CW28
10V10
RW100
56k
RW14
56
RW101
39k
RW15
1.5k
RW16
560
CW08
SL120p
CW09
SL120p
RW17
2.7k
CW10
7L50V2.2u
RW18
820
RW102
56k
CW29
10V10
RW09
56
RW103
39k
RW10
1.5k
RW11
560
CW05
SL120p
CW06
SL120p
RW12
2.7k
CW07
7L50V2.2u
RW13
820
RW02
56k
CW27
10V10
RW04
56
RW05
1k
RW03
39k
RW06
150
CW01
SL120p
CW02
SL120p
CW03
SL47p
RW07
2.2k
CW04
50V2.2
CW63
OPEN
RW66
680
RW08
820
RW60
SHORT
JW01
WIRE
LW04
SHORT
RW61
4.7k
RW62
6.2k
CW35
F25V0.1_Z
CW36
F50V0.01_Z
CW34
F50V0.01
CW37
F50V0.1_Z
CW60
16V1u
CW33
F16V0.33_Z
CW31
F16V0.33_Z
CW38
7L10V100u
RW40
OPEN
CW21
OPEN
CW26
OPEN
CW25
OPEN
CW64
OPEN
RW86
OPEN
RW87
OPEN
CW95
SL100p
CW94
SL100p
CW80
16V1u
CW81
16V1u
CW82
SL33p
CW83
SL33p
CW84
OPEN
CW85
SL33p
CW86
SL33p
RW80
330
RW81
330
CDG5
CDG4
CDG3
CDG2
CDG1
CDG0
VSS
BIASAD
VSSAD2
VRTY
VIN
VDDAD1
YIN
VRBY
VRTC
QIN
VSSAD1
IIN
VRBC
CLAMPVC
CDG7
SDA
SCL
VDD
YVS
JPW
JMT
VSS
VBM
VDP
ISL
QSL
SPT
VCP
HRF
VBL
YCP
VDD
CCP
JTB
VDDDA2
YOUT
VSSDA2
IOUT
VDDDA1
QOUT
VSSDA1
VREFDA
BIASDA1
BIASDA2
YDG7
YDG6
YDG5
YDG4
YDG3
YDG2
YDG1
YDG0
ACK
NRH
L-Vdd
SEL
VCOO
F1-A
F1-B
PFDO
L-GND
V-Vdd
RBIAS
VCIN
V-GND
VIHB
PIHB
NC
OUT
GND
IN
+5V
GND
Vcc
1
2
3
4
A
B
C
D
E
F

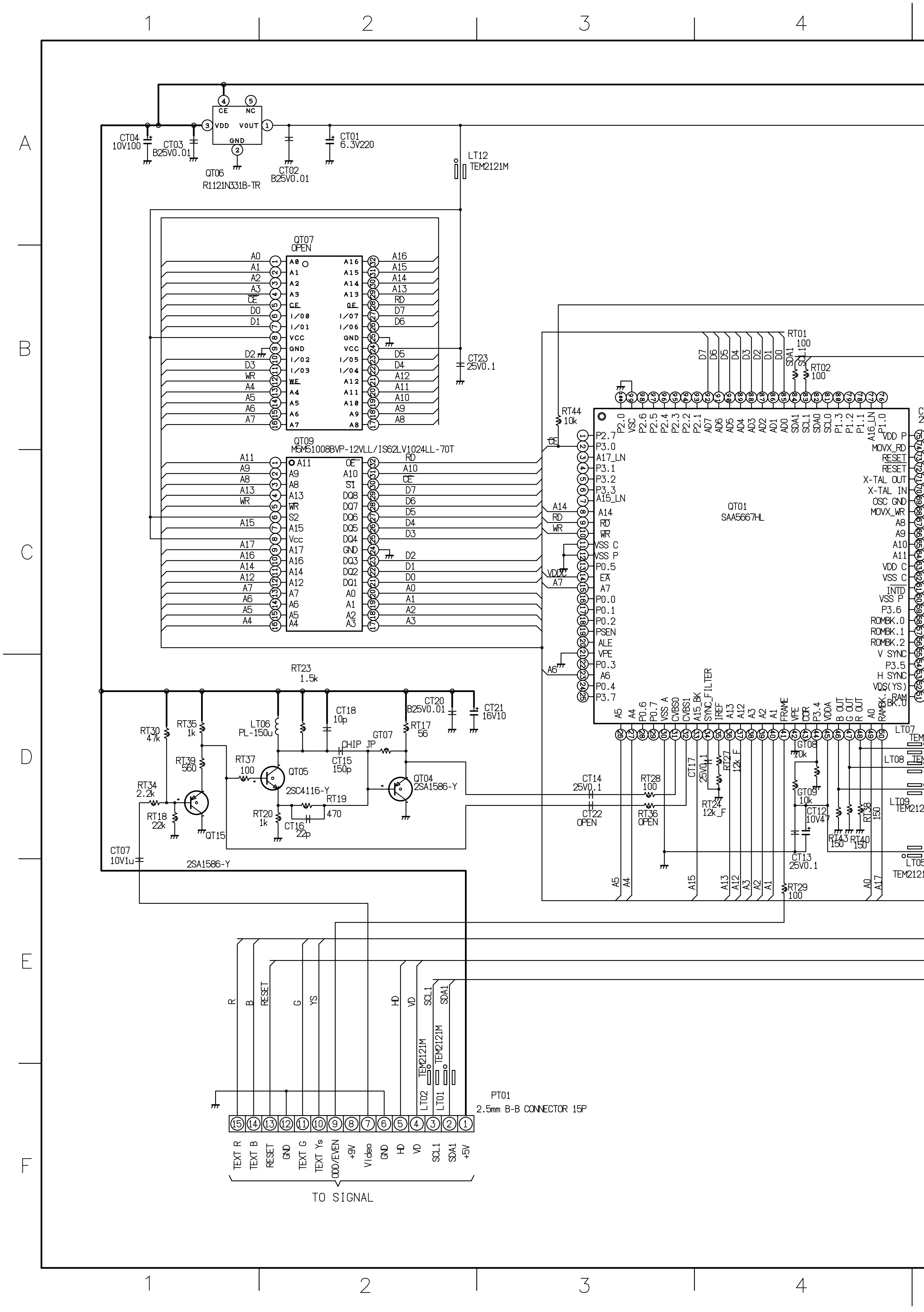

5
6
7
8
A
B
C
D
E
F
CW48
F25V0.1_Z
CW49
F25V0.1_Z
QW06
TC7S14F
QW04
TC7S04F
Vdd
Vss
Vcc
GND
RW42
100
QW03
TC7S32F
CW53
F25V0.1_Z
QW05
TC7S32F
RW94
100
RW93
100
QW08
TC74HC74AF
1CLR
1D
1CK
1PR
1Q
1Q
GND
VCC
2CLR
2D
2CK
2PR
2Q
2Q
QW07
TC7S86F(T85L
CW54
F25V0.1_Z
RW91
10k
RW115
OPEN
RW114
56k
CW73
CH470p
CW72
50V0.01
RW76
1.8k
CW74
F50V0.01_Z
JTB
TAD0
TAD1
VSS
VCOVDD
VCOGND
FIL2
FIL12
FIL11
VDD
RCK
WCK
TST0
TST1
TST2
TST3
VBP
HBP
HBL
NDO
TBD0
TBD1
TBD2
TBD3
TBD4
TBD5
TBD6
TBD7
RST
EDT
NRM
CW70
F50V0.01_Z
LW09
TEM2117T
RW74
3.3k
RW45
OPEN
QW30
2SC2712Y
RW90
SHORT
RW73
10k
RW116
2.2k
RW83
10k
RW92
10k
CW56
SL220p
CW55
4700p
RW96
1k
GR02
OPEN
RW95
100
QW32
2SC3437Y-L
CW47
F25V0.1_Z
CW50
7L10V220u
LW06
TEM2117T
CW39
F25V0.1_Z
RW70
33k
LW10
TEM2114T
CW18
OPEN
QW20
2SC2412K
RW23
820
RW24
820
RW25
100
RW20
100
RW22
100
LW15
4.7
RW21
1k
CW11
SL33p
CW12
SL82p
QW21
2SA1037K
QW22
2SC2412K
RW29
3.9k
RW30
1.5k
RW31
100
RW26
100
RW28
270
LW16
4.7
RW71
1.8k
QW23
2SA1037K
RW27
1k
CW13
SL33p
CW14
SL82p
QW24
2SC2412K
RW35
3.9k
RW36
1.5k
RW37
100
RW32
100
RW34
270
LW17
4.7
RW72
1.8k
RW33
1k
CW15
SL33p
CW16
SL82p
QW25
2SA1037K
CW22
OPEN
CW23
OPEN
CW24
OPEN
CW25
OPEN
NP
CW65
OPEN
RW77
SHORT
RW78
SHORT
RW79
SHORT
RW82
1k
RW84
1k
RW85
SHORT
RW88
OPEN
RW89
1k
LW02
TEM2114T
CW87
SL33p
CW88
SL33p
CW89
SL33p
CW90
SL33p
CW91
SL33p
CW92
SL33p
CW93
SL33p
CW96
OPEN
CW97
SL100p
PW02
BB10P
Hvmask
VDIn
HDIn
GND
Yout
Uout
Vout
Vpout
NORMAL
Hvblk
TO SIGNAL

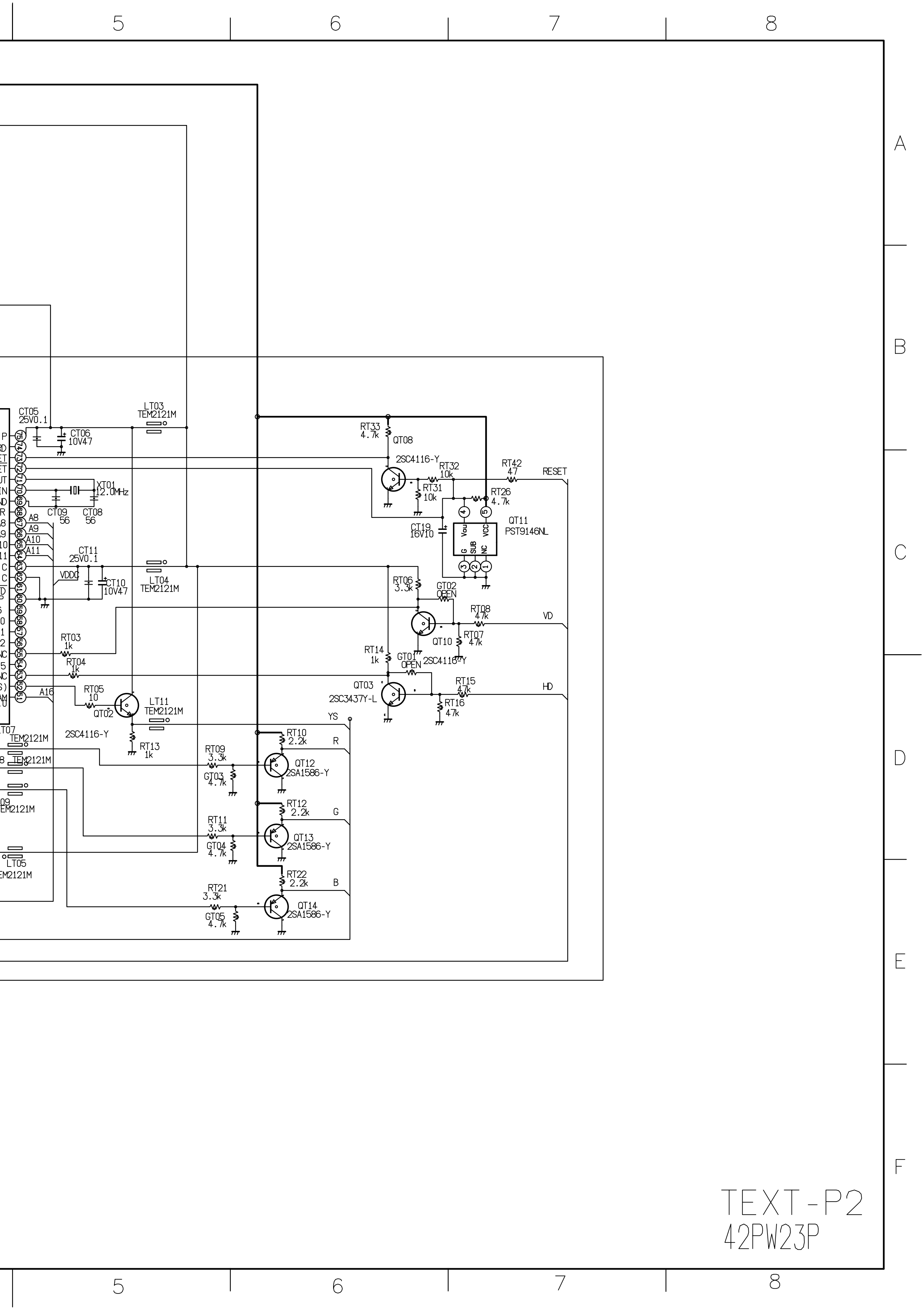
ED-WAC
42PW23P



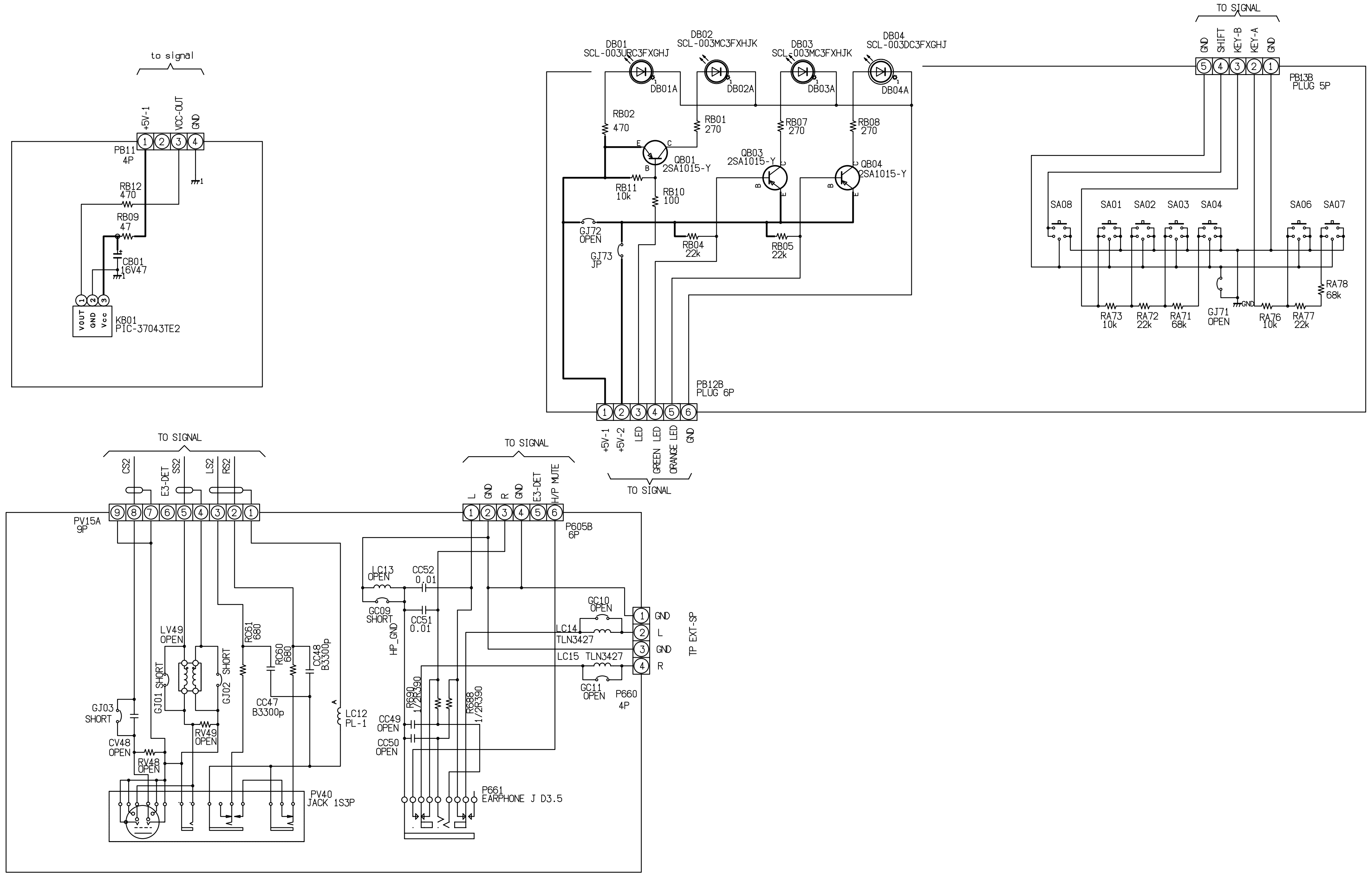
QT06
R1121N331B-TR
CT04
10V100
CT03
B25V0.01
CT02
B25V0.01
CT01
6.3V220
LT12
TEM2121M
QT07
OPEN
QT09
MSM51008BVP-12VLL/IS62LV1024LL-70T
CT23
25V0.1
QT01
SAA5667HL
RT01
100
RT02
100
RT44
10k
CT05
25V0.1
CT06
10V47
LT03
TEM2121M
XT01
12.0MHz
CT09
56
CT08
56
CT11
25V0.1
CT10
10V47
LT04
TEM2121M
RT03
1k
RT04
1k
RT05
10
QT02
2SC4116-Y
LT11
TEM2121M
RT13
1k
LT07
TEM2121M
LT08
TEM2121M
LT09
TEM2121M
LT05
TEM2121M
GT08
10k
GT09
10k
CT12
10V47
CT13
25V0.1
RT43
150
RT40
150
RT38
150
RT29
100
CT17
25V0.1
RT27
12k_F
RT24
12k_F
RT28
100
RT36
OPEN
CT14
25V0.1
CT22
OPEN
RT23
1.5k
CT20
B25V0.01
CT21
16V10
CT18
10p
RT17
56
GT07
CHIP JP
CT15
150p
QT04
2SA1586-Y
LT06
PL-150u
RT35
1k
RT39
560
RT37
100
QT05
2SC4116-Y
RT19
470
RT20
1k
CT16
22p
RT30
47k
RT34
2.2k
RT18
22k
QT15
2SA1586-Y
CT07
10V1u
RT33
4.7k
QT08
2SC4116-Y
RT32
10k
RT31
10k
RT42
47
RT26
4.7k
RESET
QT11
PST9146NL
CT19
16V10
RT06
3.3k
GT02
OPEN
RT08
4.7k
RT07
47k
QT10
2SC4116-Y
VD
RT14
1k
GT01
OPEN
QT03
2SC3437Y-L
RT15
47k
RT16
47k
HD
YS
RT10
2.2k
R
RT09
3.3k
GT03
4.7k
QT12
2SA1586-Y
RT12
2.2k
G
RT11
3.3k
GT04
4.7k
QT13
2SA1586-Y
RT22
2.2k
B
RT21
3.3k
GT05
4.7k
QT14
2SA1586-Y
LT02
TEM2121M
LT01
TEM2121M
PT01
2.5mm B-B CONNECTOR 15P
TEXT R
TEXT B
RESET
GND
TEXT G
TEXT Ys
ODD/EVEN
+9V
Video
GND
HD
VD
SCL1
SDA1
+5V
TO SIGNAL

TEXT-P2
42PW23P

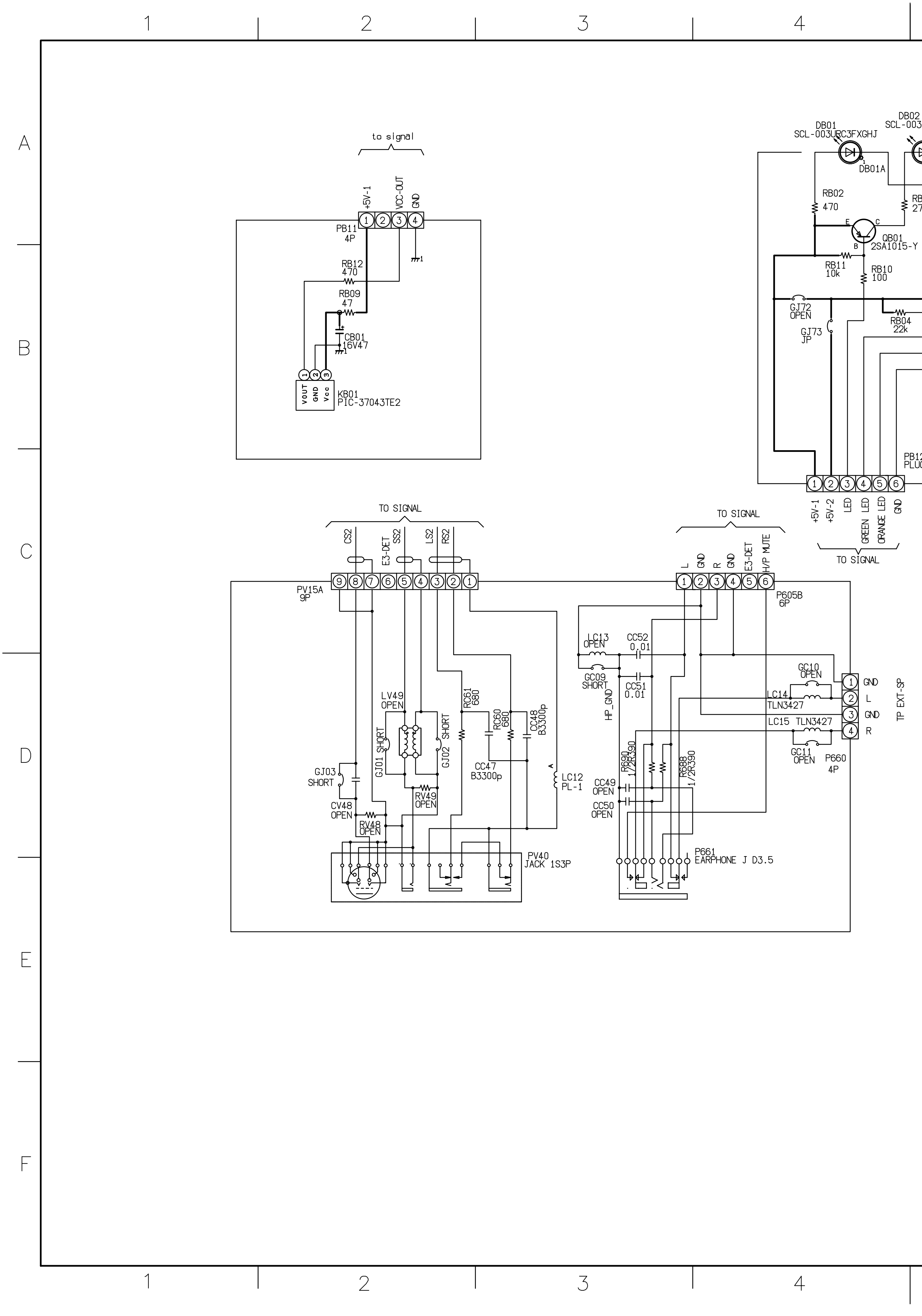

1
2
3
4
A
B
C
D
E
F
QT06
R1121N331B-TR
CE
NC
VDD
VOUT
GND
CT04
10V100
CT03
B25V0.01
CT02
B25V0.01
CT01
6.3V220
LT12
TEM2121M
QT07
OPEN
CT23
25V0.1
QT09
M5M51008BVP-12VLL/IS62LV1024LL-70T
RT01
100
RT02
100
RT44
10k
QT01
SAA5667HL
P2.7
P3.0
A17_LN
P3.1
P3.2
P3.3
A15_LN
A14
RD
WR
VSS C
VSS P
P0.5
EA
A7
P0.0
P0.1
P0.2
PSEN
ALE
VPE
P0.3
A6
P0.4
P3.7
P2.0
VSC
P2.6
P2.5
P2.4
P2.3
P2.2
P2.1
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
SDA1
SCL1
SDA0
SCL0
P1.3
P1.2
P1.1
A16_LN
P1.0
VDD P
MOVX_RD
RESET
X-TAL OUT
X-TAL IN
OSC GND
MOVX_WR
A8
A9
A10
A11
VDD C
VSS C
INTD
VSS P
P3.6
ROMBK.0
ROMBK.1
ROMBK.2
V SYNC
P3.5
H SYNC
VDS(YS)
RAMBK.0
A5
A4
P0.6
P0.7
VSS A
CVBS0
CVBS1
A15_BK
SYNC_FILTER
IREF
A13
A12
A3
A2
A1
FRAME
VPE
COR
P3.4
VDDA
B OUT
G OUT
R OUT
A0
RAMBK.1
RT23
1.5k
CT18
10p
CT20
B25V0.01
CT21
16V10
LT06
PL-150u
RT17
56
GT07
CHIP JP
CT15
150p
RT30
47k
RT35
1k
RT39
560
RT37
100
QT05
2SC4116-Y
QT04
2SA1586-Y
RT19
470
RT20
1k
CT16
22p
RT34
2.2k
RT18
22k
QT15
CT07
10V1u
2SA1586-Y
CT14
25V0.1
CT22
OPEN
RT28
100
RT36
OPEN
CT17
25V0.1
RT27
12k_F
RT24
12k_F
GT08
10k
GT09
10k
CT12
10V47
CT13
25V0.1
RT43
150
RT40
150
RT38
150
RT29
100
LT07
LT08
LT09
TEM212
LT05
TEM2121
R
B
RESET
G
YS
HD
VD
SCL1
SDA1
TEM2121M
TEM2121M
LT02
LT01
PT01
2.5mm B-B CONNECTOR 15P
TEXT R
TEXT B
RESET
GND
TEXT G
TEXT Ys
ODD/EVEN
+9V
Video
GND
HD
VD
SCL1
SDA1
+5V
TO SIGNAL

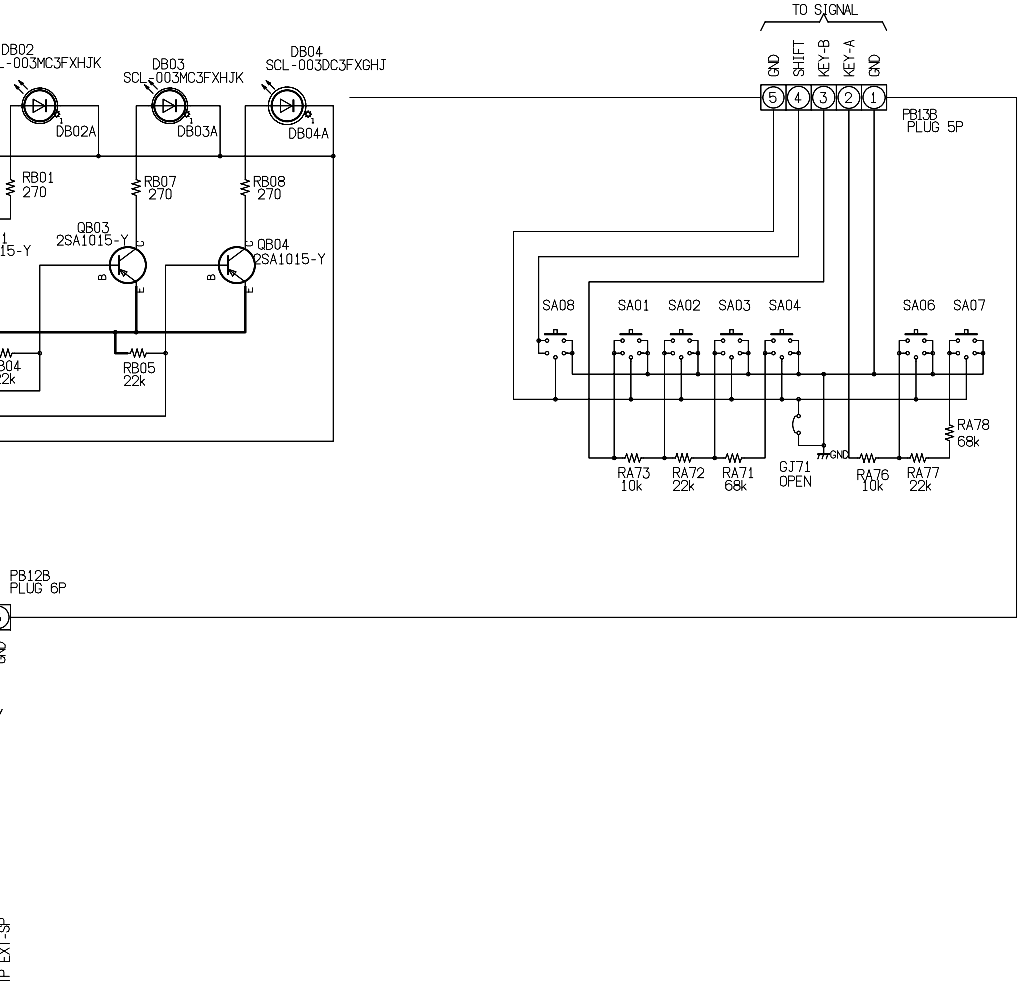

5
6
7
8
A
B
C
D
E
F
CT05
25V0.1
CT06
10V47
LT03
TEM2121M
RT33
4.7k
QT08
2SC4116-Y
RT32
10k
RT31
10k
RT42
47
RESET
RT26
4.7k
XT01
12.0MHz
CT09
56
CT08
56
CT19
16V10
QT11
PST9146NL
Vout
VCC
G
SUB
NC
A8
A9
A10
A11
CT11
25V0.1
LT04
TEM2121M
VDDC
CT10
10V47
RT06
3.3k
GT02
OPEN
RT08
47k
VD
QT10
RT07
47k
RT03
1k
RT14
1k
GT01
OPEN
2SC4116-Y
RT04
1k
QT03
2SC3437Y-L
RT15
47k
HD
RT16
47k
RT05
10
A16
QT02
2SC4116-Y
LT11
TEM2121M
RT13
1k
YS
LT07
TEM2121M
TEM2121M
RT10
2.2k
R
RT09
3.3k
GT03
4.7k
QT12
2SA1586-Y
TEM2121M
RT12
2.2k
G
RT11
3.3k
GT04
4.7k
QT13
2SA1586-Y
LT05
TEM2121M
RT22
2.2k
B
RT21
3.3k
GT05
4.7k
QT14
2SA1586-Y

TEXT-P2
42PW23P


to signal
+5V-1
VCC-OUT
GND
PB11
4P
RB12
470
RB09
47
CB01
16V47
VOUT
GND
Vcc
KB01
PIC-37043TE2
DB01
SCL-003URC3FXGHJ
DB01A
DB02
SCL-003MC3FXHJK
DB02A
DB03
SCL-003MC3FXHJK
DB03A
DB04
SCL-003DC3FXGHJ
DB04A
RB02
470
RB01
270
RB07
270
RB08
270
QB01
2SA1015-Y
QB03
2SA1015-Y
QB04
2SA1015-Y
RB11
10k
RB10
100
GJ72
OPEN
GJ73
JP
RB04
22k
RB05
22k
PB12B
PLUG 6P
+5V-1
+5V-2
LED
GREEN LED
ORANGE LED
GND
TO SIGNAL
TO SIGNAL
GND
SHIFT
KEY-B
KEY-A
GND
PB13B
PLUG 5P
SA08
SA01
SA02
SA03
SA04
SA06
SA07
RA78
68k
RA73
10k
RA72
22k
RA71
68k
GJ71
OPEN
GND
RA76
10k
RA77
22k
TO SIGNAL
CS2
E3-DET
SS2
LS2
RS2
PV15A
9P
LV49
OPEN
GJ01 SHORT
GJ02 SHORT
RC61
680
RC60
680
CC48
B3300p
CC47
B3300p
LC12
PL-1
GJ03
SHORT
CV48
OPEN
RV48
OPEN
RV49
OPEN
PV40
JACK 1S3P
TO SIGNAL
L
GND
R
GND
E3-DET
H/P MUTE
P605B
6P
LC13
OPEN
CC52
0.01
GC09
SHORT
CC51
0.01
HP_GND
GC10
OPEN
LC14
TLN3427
LC15 TLN3427
GC11
OPEN
GND
L
GND
R
TP EXT-SP
P660
4P
R690
1/2R390
R688
1/2R390
CC49
OPEN
CC50
OPEN
P661
EARPHONE J D3.5

FRONT-IN/RMT/KEY
42PW23P


1
2
3
4
A
B
C
D
E
F
to signal
+5V-1
VCC-OUT
GND
PB11
4P
RB12
470
RB09
47
CB01
16V47
VOUT
GND
Vcc
KB01
PIC-37043TE2
DB01
SCL-003URC3FXGHJ
DB02
SCL-003
DB01A
RB02
470
QB01
2SA1015-Y
RB11
10k
RB10
100
GJ72
OPEN
GJ73
JP
RB04
22k
PB12
+5V-1
+5V-2
LED
GREEN LED
ORANGE LED
GND
TO SIGNAL
CS2
E3-DET
SS2
LS2
RS2
PV15A
9P
L
GND
R
GND
E3-DET
H/P MUTE
P605B
6P
LC13
OPEN
CC52
0.01
GC09
SHORT
CC51
0.01
HP_GND
GC10
OPEN
LC14
TLN3427
LC15
TLN3427
GC11
OPEN
P660
4P
GND
L
GND
R
TP EXT-SP
LV49
OPEN
RC61
680
RC60
680
CC48
B3300p
GJ01 SHORT
GJ02 SHORT
CC47
B3300p
LC12
PL-1
GJ03
SHORT
CV48
OPEN
RV49
OPEN
RV48
OPEN
PV40
JACK 1S3P
R690
1/2R390
R688
1/2R390
CC49
OPEN
CC50
OPEN
P661
EARPHONE J D3.5


DB02
L-003MC3FXHJK
DB02A
DB03
SCL-003MC3FXHJK
DB03A
DB04
SCL-003DC3FXGHJ
DB04A
RB01
270
RB07
270
RB08
270
QB03
2SA1015-Y
1
15-Y
QB04
2SA1015-Y
B
C
E
B04
2k
RB05
22k
PB12B
PLUG 6P
GND
IP EXT-SP
TO SIGNAL
GND
SHIFT
KEY-B
KEY-A
GND
5
4
3
2
1
PB13B
PLUG 5P
SA08
SA01
SA02
SA03
SA04
SA06
SA07
RA78
68k
RA73
10k
RA72
22k
RA71
68k
GJ71
OPEN
GND
RA76
10k
RA77
22k

A
B
C
D
E
F

FRONT-IN/RMT/KEY
42PW23P